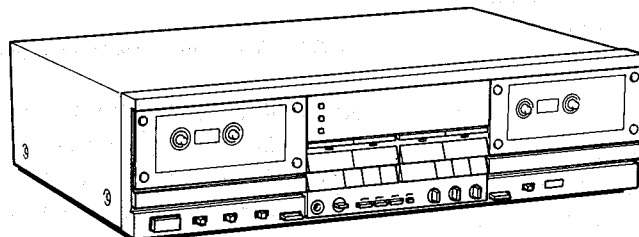


TC-WR900

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model*



SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

Approx. 90 sec. (with HF-60 cassette)

Bias

AC Bias

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	59 dB	66 dB	72 dB
TYPE II (Sony UX-S)	58 dB	65 dB	71 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion

1.0 % (with Sony METAL-ES cassettes)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30-18,000Hz (± 3 dB, DIN) 30-13,000Hz (± 3 dB, OVU recording)
TYPE II cassette (Sony UX-S)	30-17,000Hz (± 3 dB, DIN)
TYPE I cassette (Sony HF-S)	30-16,000Hz (± 3 dB, DIN)

Wow and flutter

0.05% WRMS (NAB)
 $\pm 0.14\%$ (DIN)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV (-20 dB)
	Input impedance	50 k ohms

Model Name Using Simirar Mechanism

New

Tape Transport Mechanism Type

DECK A: TCM-CMAY B-18
DECK B: TCM-CHAY B-19

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47 k ohms
	Load impedance	Over 10k ohms
Headphone output (stereo phone jack)	Output level	0-2.5 mW at a load impedance of 32 ohms

General

Power requirements

US, Canadian model : 120V ac, 60Hz
AEP, WG model : 220V ac (or 240V ac adjustable by authorized Sony Personnel), 50/60Hz
UK model : 240V ac (or 220V ac adjustable by Sony Personnel), 50/60Hz
E model : 120, 220, or 240V ac adjustable, 50/60Hz

Power consumption

32 W

Dimensions

Approx. 430 \times 118 \times 307 mm (w/h/d)
(17 \times 4 $\frac{3}{4}$ \times 12 $\frac{1}{8}$ inches)

Weight

including projecting parts and controls
Approx. 5.7 kg (12 lbs 10 oz)

Supplied accessory

Audio connecting cord (2)
Remote control cord (1)



STEREO CASSETTE DECK
SONY®

SAFETY CHECK-OUT

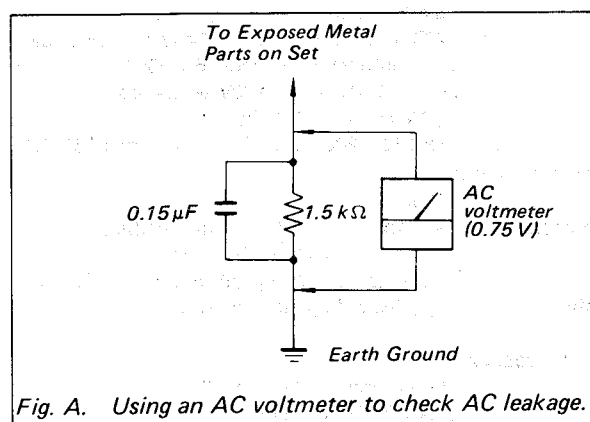
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

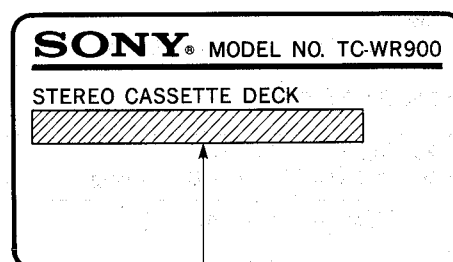


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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<u>Section</u>	<u>Title</u>	<u>Page</u>
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4-1.	Circuit Board Location	10
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4-3.	Printed Wiring Board	12
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5-2.	Front Panel Section	24
5-3.	Mechanism Section	25
SECTION 6 ELECTRICAL PARTS LIST		28
MODEL IDENTIFICATION		
— Specification Label —		



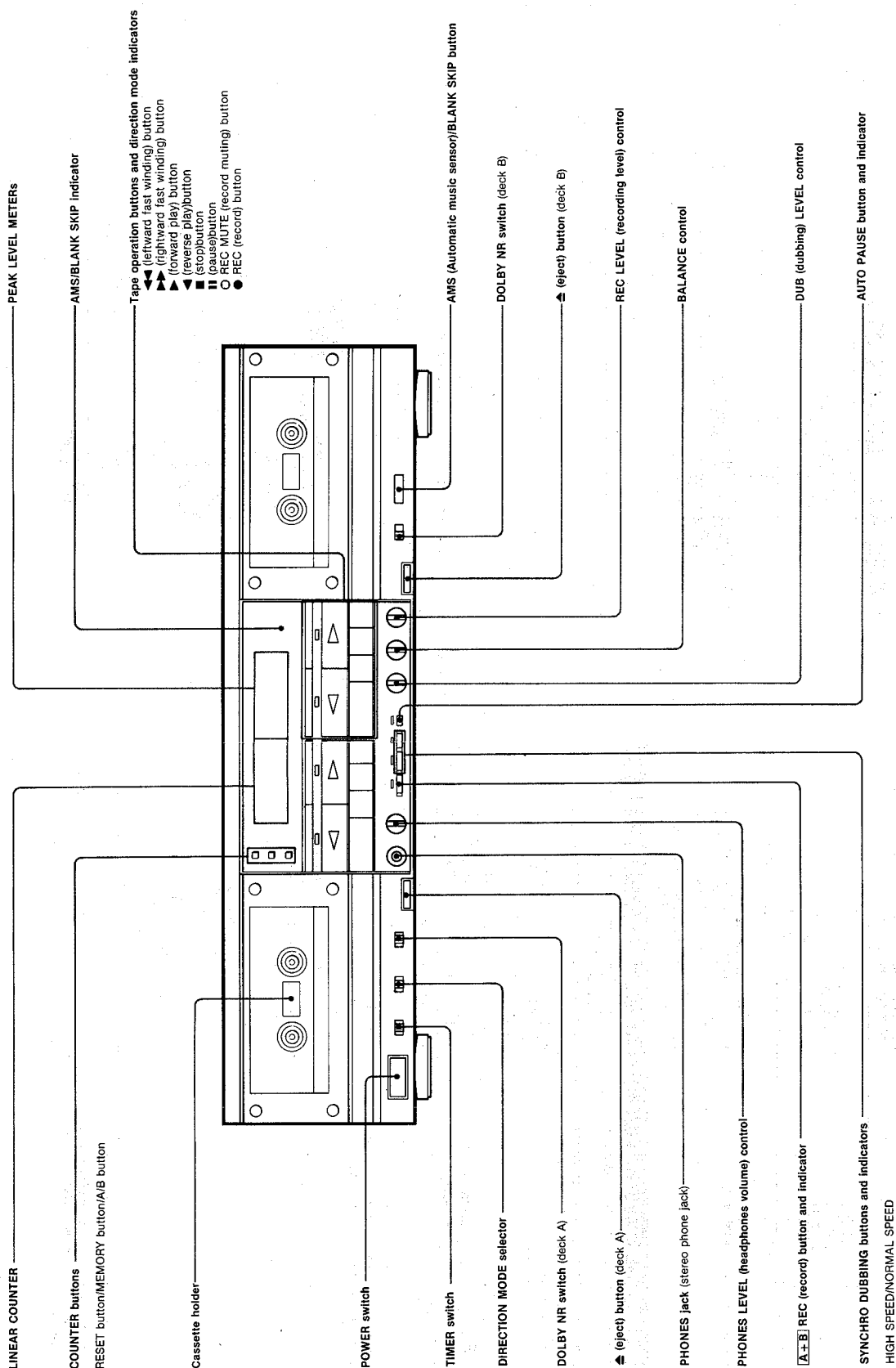
US, Canadian (CND) model: AC 120V~60Hz 32W
 AEP, West Germany (WG) model: AC 220V~50/60Hz 32W
 UK model: AC 240V~50/60Hz 32W
 E model: AC 120, 220V 240V~50/60Hz 32W

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

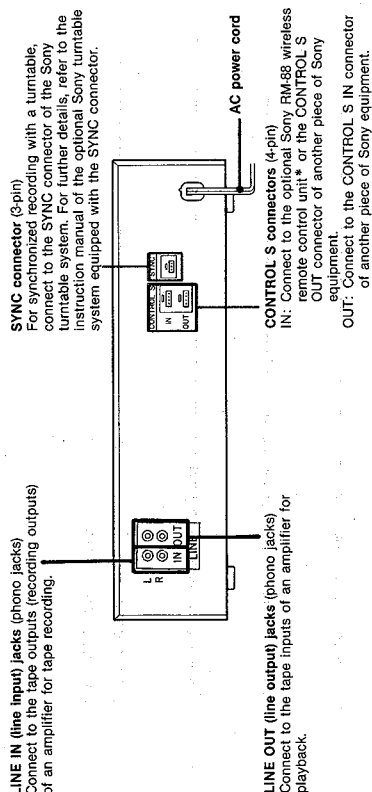
SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS



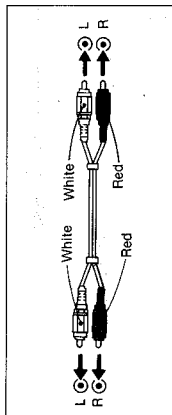
1-2. CONNECTIONS

Parts Identification of the Rear Panel



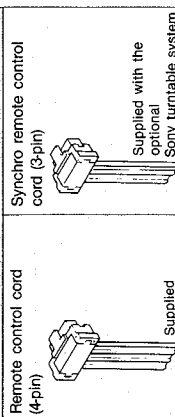
Notes on Connections

- Turn off the power to all equipment before making any connection.
- Note that the red plug of the supplied connecting cord is for right-channel (R) connection and the white plug for left-channel (L) connection.



- The connecting cords should be fully inserted into the jacks. A loose connection may cause hum pickup.

Flat cord connection

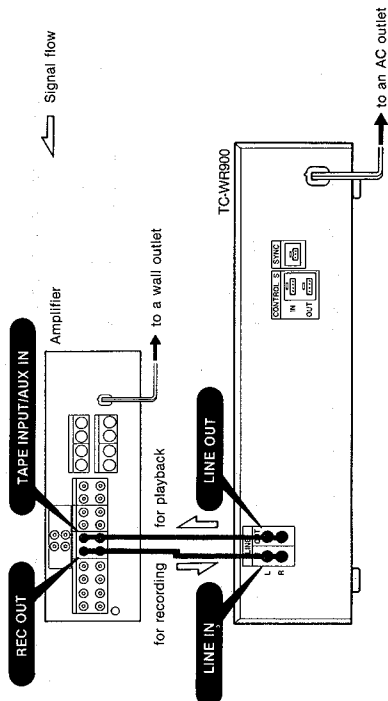


Be sure to insert the cord firmly.

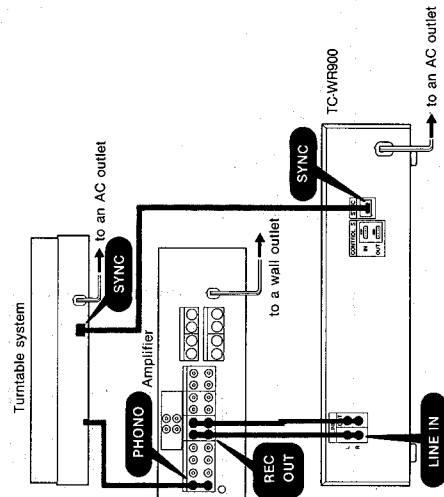
To disconnect the cord, pull out the connector. Do not pull the cord itself.

*The remote control unit functions only on the deck in which the cassette is inserted. If both decks are loaded, the unit controls only the deck A.

Basic connection



Connection for synchronized operation with a turntable system



SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belt
capstan	idler
- Demagnetize the record/playback head with a head demagnetizer.
(Head demagnetizer do not approach for the erase head.)
- Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

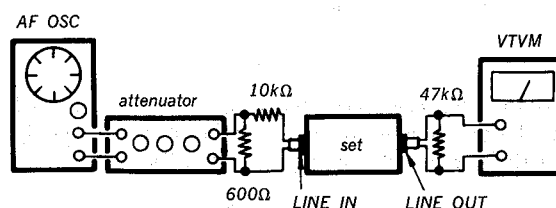
● Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 70g.cm (0.42 to 0.97oz.inch)
Forward back tension	CQ-102C	2 to 6g.cm (0.028 to 0.08oz.inch)
Reverse	CQ-102RB	30 to 70g.cm (0.42 to 0.97oz.inch)
Reverse back tension	CQ-102RB	2 to 6g.cm (0.028 to 0.08oz.inch)
Forward, Reverse	CQ-201B	90 to 160g.cm (1.25 to 2.22oz.inch)

SECTION 3 ELECTRICAL ADJUSTMENTS

- The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF
TIMER switch : OFF
 - Standard record position
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

—Record Mode—



Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.25V (−10dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47kΩ
output signal level	0.44V (−5dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed

3-1. Record/Playback Head Azimuth Adjustment

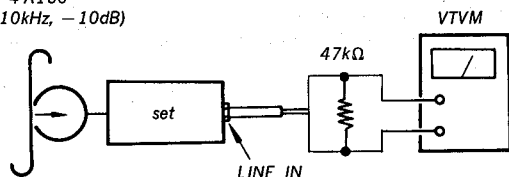
DECK A

DECK B

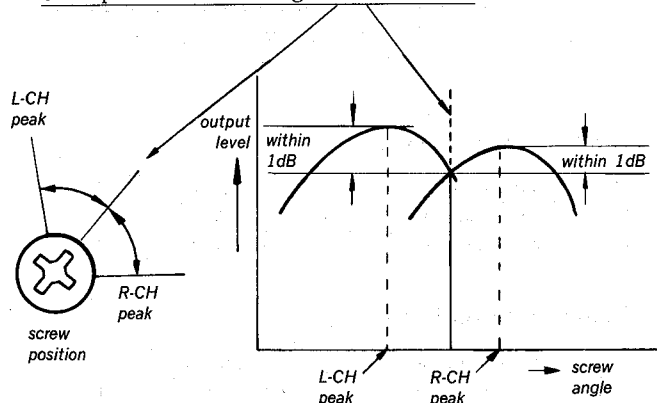
Procedure:

1. Forward Playback Mode

test tape
P-4-A100
(10kHz, -10dB)

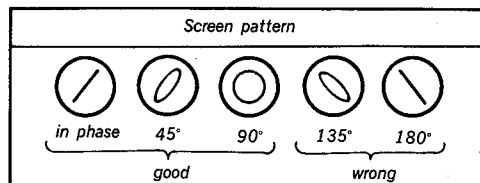
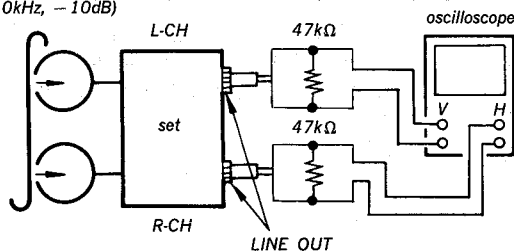


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



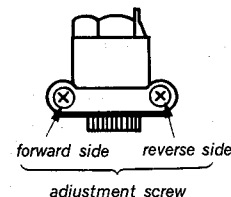
3. Playback Mode

test tape
P-4-A100
(10kHz, -10dB)



4. Change the Review Playback Mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location: —record/playback head—



3-2. Tape Speed Adjustment

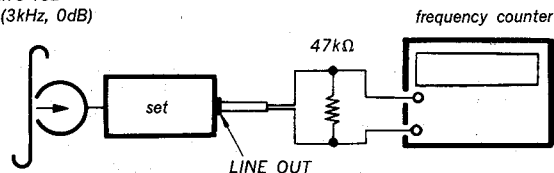
DECK A

DECK B

Procedure:

—Forward Playback Mode—

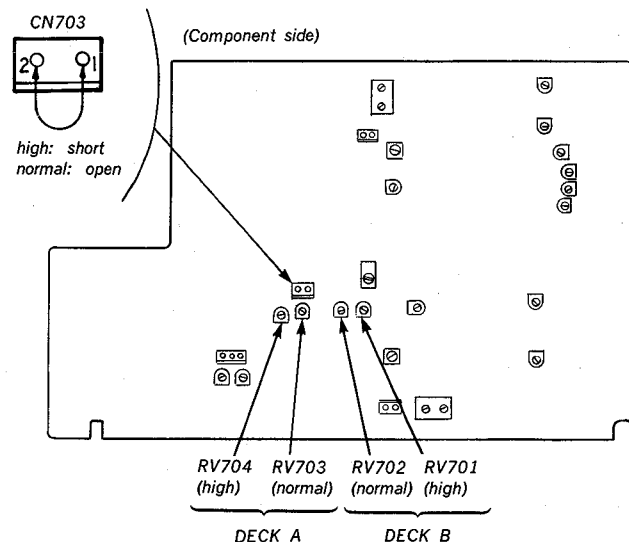
test tape
WS-48B
(3kHz, 0dB)



Playback to the roll-first of test tape (WS-48B), deck A is RV703 (high) and RV704 (normal), deck B is RV701 (high) and RV702 (normal) are adjustment within adjustment level as follows. And frequency difference between the frequency of deck A and deck B should be within 1.5% (90Hz: high, 1% (39Hz: normal).

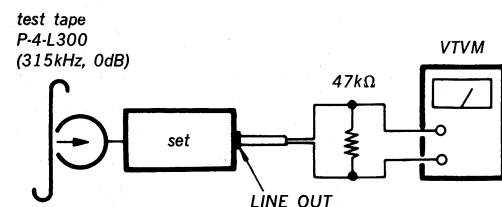
Speed	Deck	Adjustment point	TP (CN703)	Frequency counter
High	A	RV703	short	5,960—6,040Hz
	B	RV701		
Normal	A	RV704	open	2,980—3,020Hz
	B	RV702		

Adjustment Location: main board



3-3. Playback Level Adjustment DECK A DECK B

Procedure:
—Forward Playback Mode—



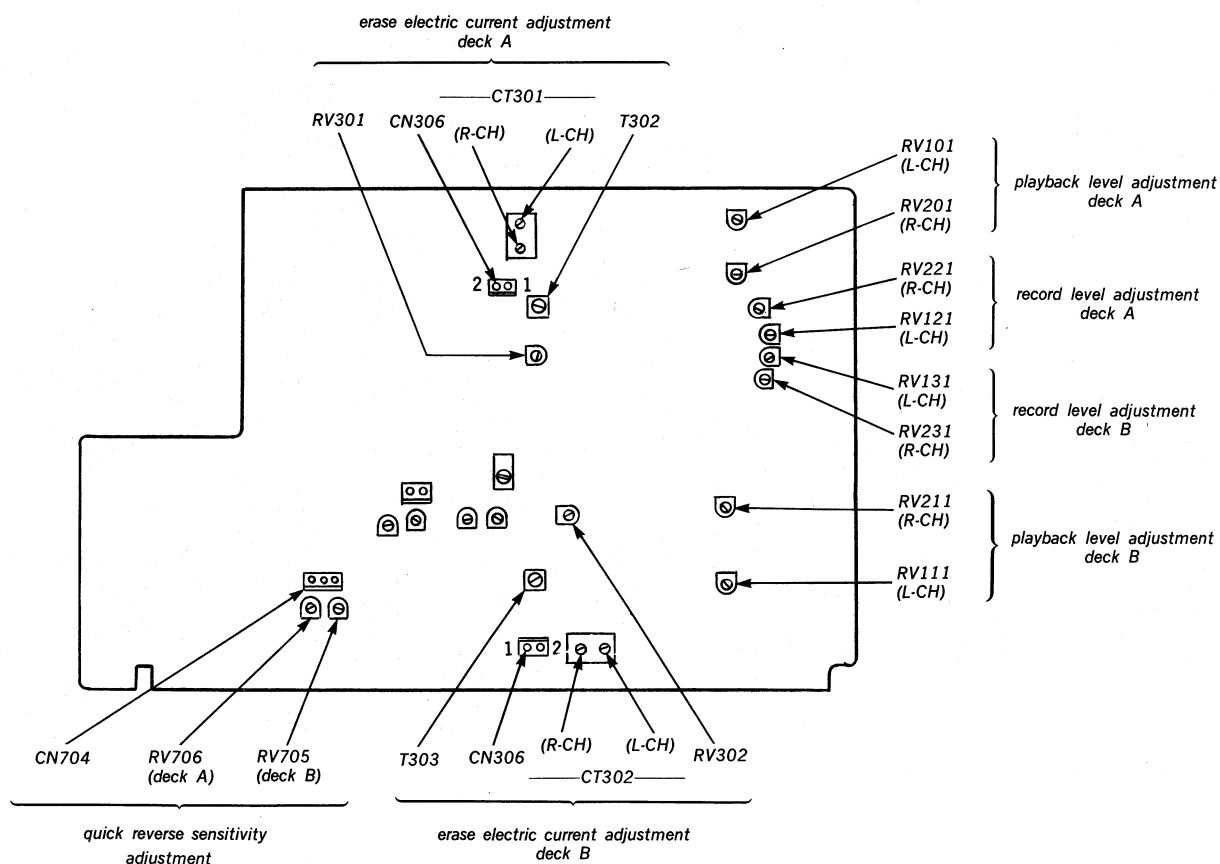
Deck A is RV101 (L-CH) and RV201 (R-CH), deck B RV111 (L-CH) and RV211 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

LINE OUT level: 0.41 to 0.46V
(-5.5 to -4.5dB)
Level Difference between Channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio board

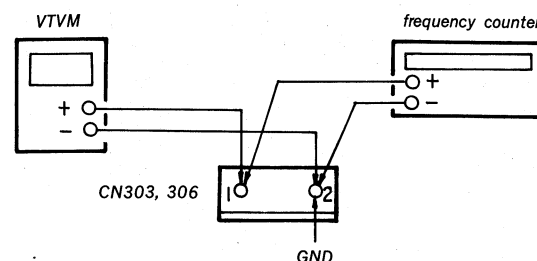


3-4. Erase Electric Current Adjustment DECK A DECK B

Erase electric current adjustment is sure to front of record bias adjustment.

Behind the erase electric current adjustment, record bias adjustment do over again.

1. Connect CN303 (deck A) and CN306 (deck B) with VTVM and frequency counter.
2. Trimmer condenser CT301 (deck A) and CT302 (deck B) to loosen semi-revolution from maximum.
3. CS-42 in deck A/B and record mode.
4. Confirm frequency counter level is 205 to 215Hz.
5. Adjustment T302 (deck A) and T303 (deck B) so that the maximum VTVM level.
6. Adjustment RV301 (deck A) and CN302 (deck B) so that 140 to 145mA VTVM level.



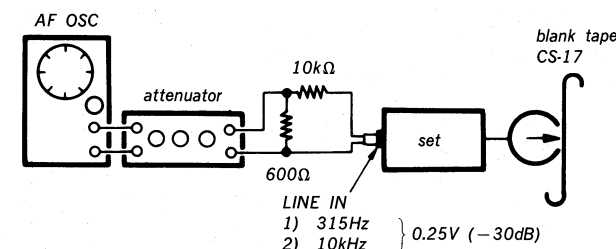
3-5. Record Bias Adjustment DECK A DECK B

Term:

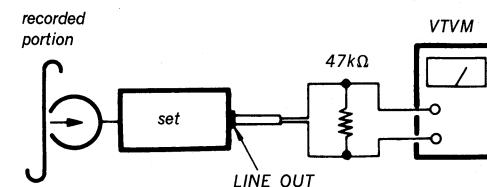
REC LEVEL knob is standard record position. (Refer to page 5.)

Procedure:

1. Record Mode



2. Playback Mode

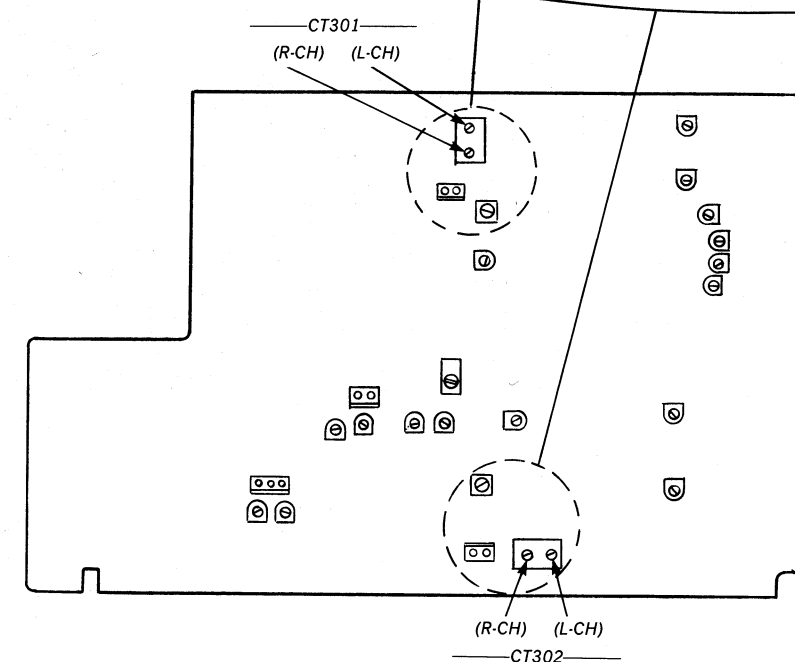


Confirm playback the signal recorded in step 1 become adjustment level as follows.

If these levels do not adjustment level, adjustment the CT301 (deck A) and CT302 (deck B) to repeat step 1 and 2.

Adjustment level: Playback output of 315Hz to playback output of 10kHz: -0.5dB to 0.5dB

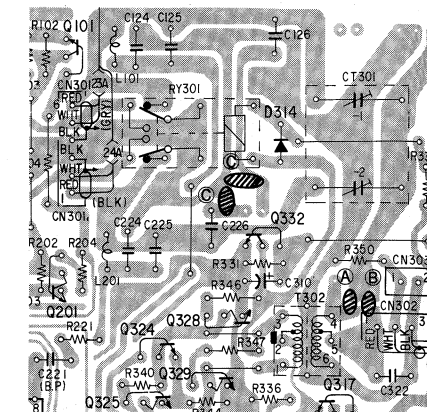
Adjustment Location: audio board



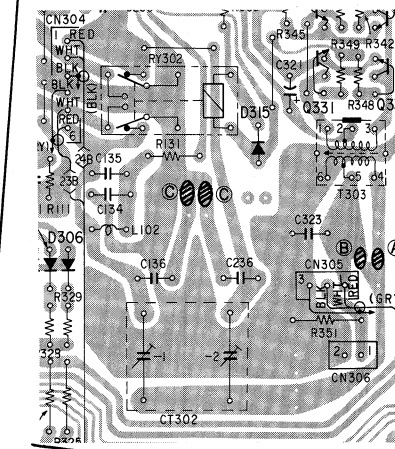
When 10kHz playback output is too high, bridge pattern at ④ side, (But too high bridge pattern ③ side.

When 10kHz playback output is too low, bridge pattern at ③ side.

DECK A



DECK B



• Refer

3-6. Re

Term:

REC LEV

Procedure:

1. Reco

AF OSC

C

C

C

C

C

C

C

C

C

C

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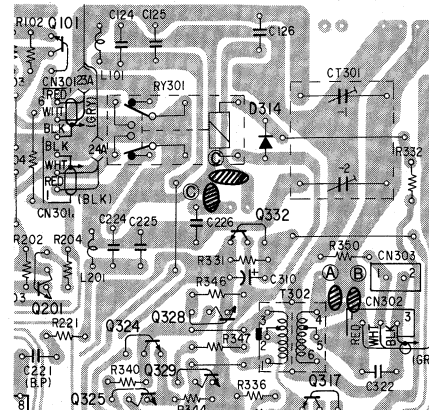
C

C

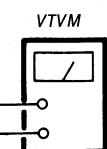
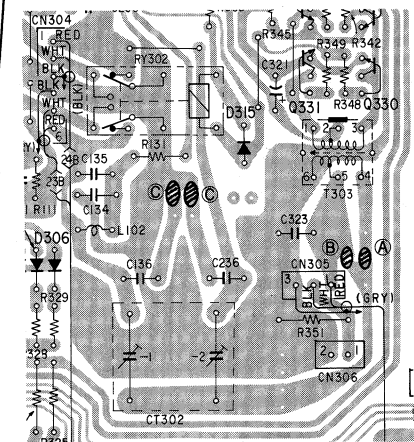
DECK A DECK B

When 10kHz playback output is too high, bridge pattern at ④ side, (But too high bridge pattern ③ side.
When 10kHz playback output is too low, bridge pattern at ⑤ side.

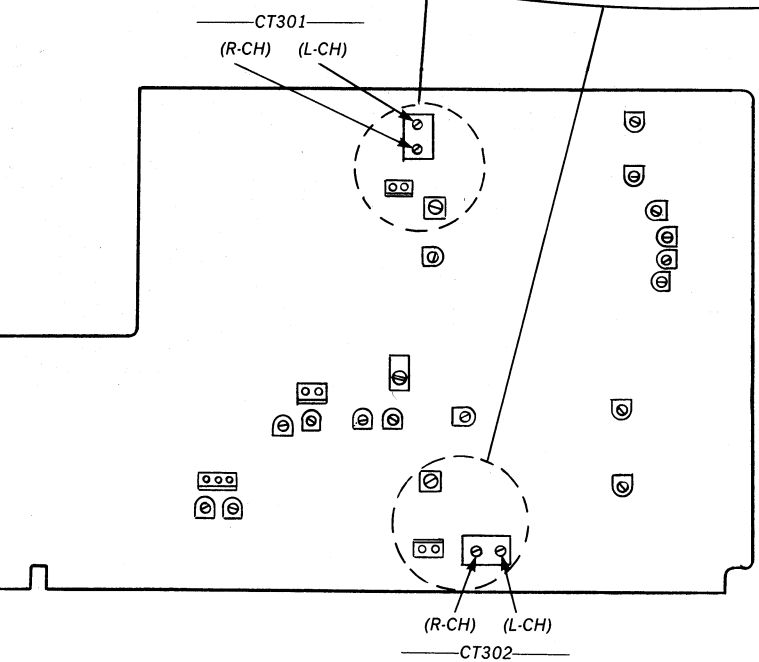
DECK A



DECK B



step 1 become adjustment
adjustment the CT301 (deck
and 2.
315Hz to playback output

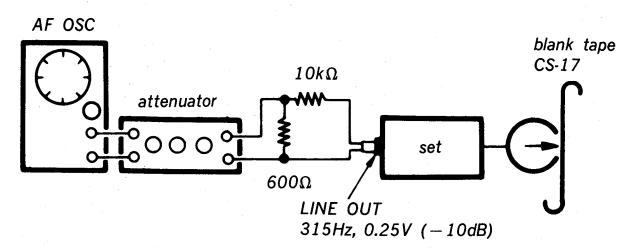


•Refer to page 7 for Adjustment Location.

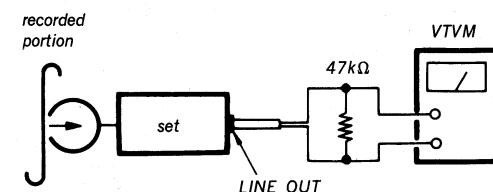
3-6. Record Level Adjustment DECK A DECK B

Term:
REC LEVEL knob is standard record position. (Refer to page 5.)

Procedure:
1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.
If the specification is not satisfied, adjust
deck A: RV121 (L-CH), RV221 (R-CH)
DECK B: RV131 (L-CH), RV231 (R-CH)
and repeat steps 1 and 2.

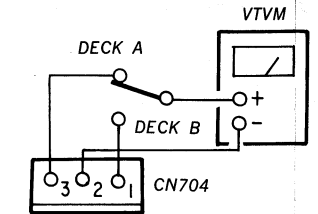
Adjustment Level:
LINE OUT level: 0.41 to 0.46V
(-5.5 to -4.5dB)

3-7. Quick Reverse Sensitivity Adjustment

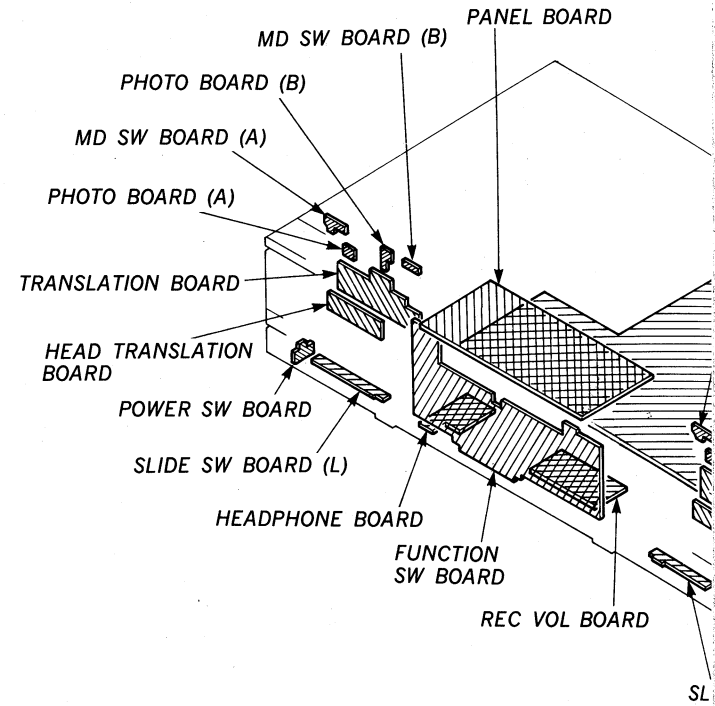
DECK A DECK B

Term:
DIRECTION MODE switch: ⇄

Procedure:
1. Connect DC volt meter with CN704.
2. Insert a blank cassette tape and put it forward mode.
3. Adjust RV706 (deck A) and RV705 (deck B) so that the DC volt meter reading is 3.3 to 3.7V.
Standard: 10V ±0.5V
Confirm after repeat about second time forward and stop, reading voltagar.
5. Change over the DIRECTION MODE switch for ↻, there is forward mode.
6. Confirm the cassette tape reverse at the joint of the leading portion and the magnetic portion.



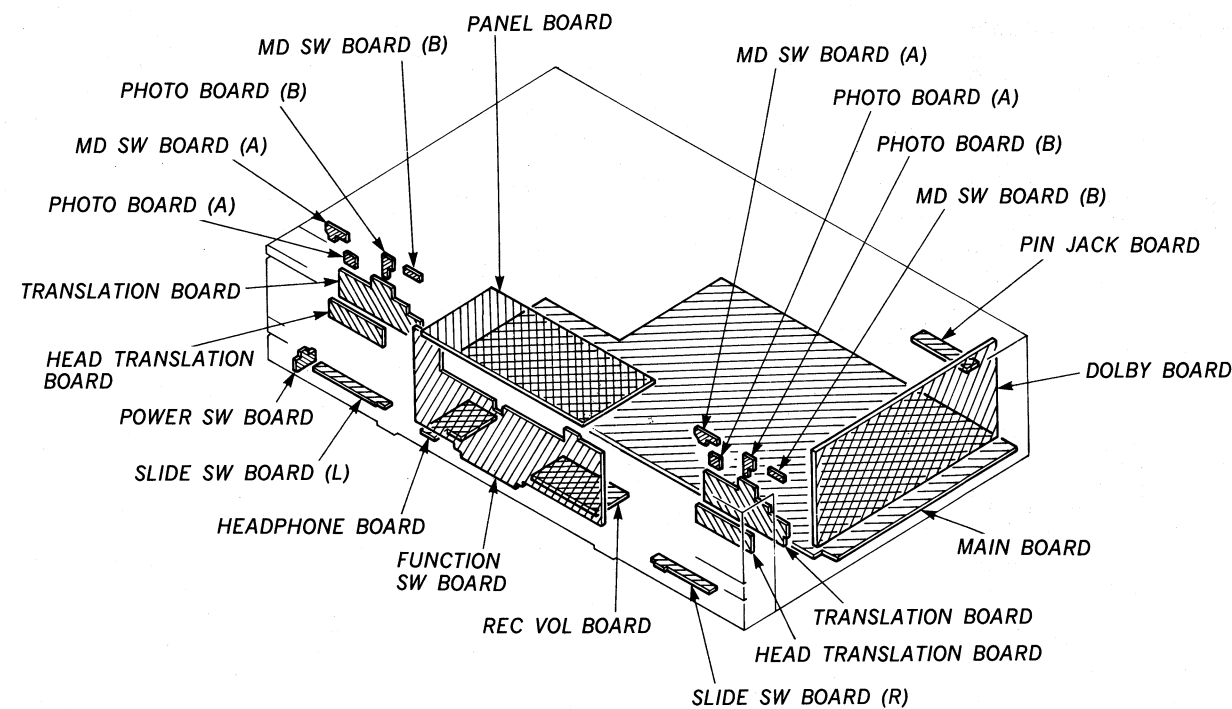
4-1. Circuit Board Location



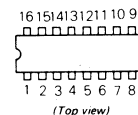
4-2. Semiconductor Lead Layouts

CXA1198P TC4051BP TC4052BP (Top view)	M5218P UPC4570C-1 (Top view)	2SB6
CX20187 (Top view)	M50761-423P (Top view)	2SB1 2SC 2SD 2SD
MB88515B-233K M50940-400SP (Top view)	DTA114ES DTA144ES DTC114ES DTC143TS DTC144ES 2SC634SP 2SD1012 	2SB1 2SB1 2SD1 2SD2
M4011BP M5066BP M4069UBP (Top view)		2SD7
M5218L (Top view)	2SA1175 2SC3623-L 	

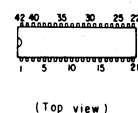
- **Semiconductor Location**



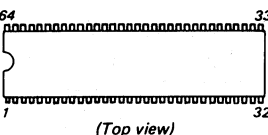
CXA1198P
TC4051BP
TC4052BP



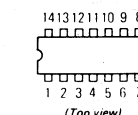
CX20187



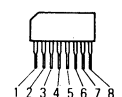
MB88515B-233K
M50940-400SP



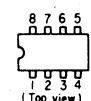
M4011BP
M5066BP
M4069UBP



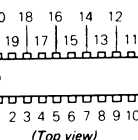
M5218L



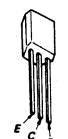
M5218P
UPC4570C-1



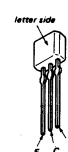
M50761-423P



DTA114ES
DTA144ES
DTC114ES
DTC143TS
DTC144ES
2SC634SP
2SD1012



2SA1175
2SC3623-L



2SB647



2SB1013
2SC2001-L
2SD1387
2SD1388



2SB1094-L
2SB1375
2SD1585-L
2SD2012



2SD774-3



HZS6A1L
HZS7B2L
HZS7C1L



US1060M
10E2N



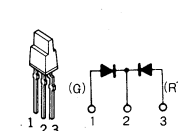
SEL2210R
SEL2910W-C



SEL4414G
SEL4914D



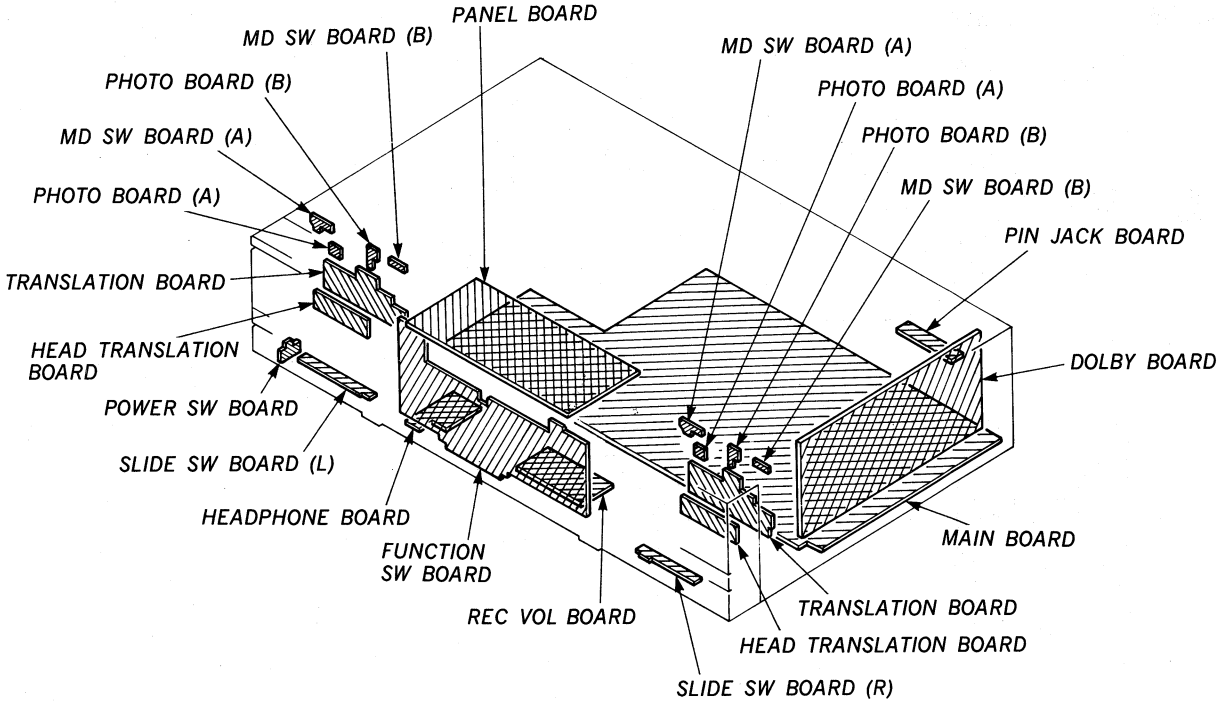
GL9ND24-YRO



Ref.No.	Location	Ref.No.	Location	Ref.No.	Location	Ref.No.	Location
D141	F-12	D802	G-11	Q316	F-22	Q730	F-33
D241	F-12	D803	G-11	Q317	C-26	Q731	F-33
D301	I-22	D901	C-12	Q318	D-26	Q732	F-33
D302	E-23	D902	C-11	Q319	D-26	Q733	F-33
D303	E-23	D903	C-15	Q320	F-25	Q734	F-33
D304	H-25	D904	C-14	Q321	F-26	Q735	E-31
D305	H-25	D905	C-15	Q322	G-25	Q736	E-30
D306	H-25	D906	B-12	Q323	F-26	Q737	E-30
D307	I-24	D907	B-13	Q324	C-25	Q738	H-34
D308	I-24	D908	B-13	Q325	C-25	Q739	H-34
D309	I-24	D909	B-14	Q326	G-27	Q740	G-34
D310	I-24	D910	D-16	Q327	G-26	Q741	I-34
D311	I-24	D911	C-12	Q328	C-26	Q742	E-31
D312	E-26			Q329	C-26	Q743	E-31
D313	F-26	IC301	B-24	Q330	G-27	Q744	E-31
D314	B-26	IC302	B-23	Q331	G-26	Q745	E-31
D315	G-26	IC303	G-24	Q332	B-26	Q801	G-11
D501	B-18	IC304	G-23	Q333	F-25	Q802	F-11
D502	H-18	IC305	C-24	Q501	C-18	Q803	G-12
D503	D-19	IC306	D-23	Q502	I-18	Q1001	C-3
D504	D-19	IC307	F-24	Q503	D-18	Q1002	D-6
D505	D-19	IC308	I-24	Q601	B-29	Q1003	H-7
D506	D-18	IC309	I-23	Q602	B-29		
D507	F-18	IC310	F-22	Q603	C-28		
D601	C-30	IC341	F-12	Q604	C-28		
D602	C-30	IC391	H-2	Q605	B-27		
D603	C-31	IC501	B-19	Q606	B-28		
D604	C-31	IC502	H-19	Q607	B-28		
D605	C-30	IC503	E-20	Q608	B-29		
D606	C-30	IC504	D-18	Q609	B-30		
D607	C-31	IC505	D-18	Q610	C-29		
D608	C-31	IC506	G-18	Q611	B-30		
D609	C-30	IC507	F-18	Q612	B-30		
D610	C-30	IC701	F-31	Q613	C-29		
D611	C-31	IC702	H-32	Q614	C-29		
D612	C-28	IC703	H-32	Q701	G-27		
D613	C-28	IC704	H-33	Q702	H-27		
D614	D-29	IC705	E-29	Q703	H-27		
D615	B-29	IC801	G-13	Q704	H-28		
D616	B-29	IC802	F-11	Q705	H-27		
D617	C-28			Q706	G-27		
D618	C-29	Q101	A-25	Q707	G-28		
D619	D-29	Q141	G-12	Q708	F-27		
D701	F-28	Q151	D-20	Q709	I-28		
D702	F-27	Q152	E-18	Q710	H-28		
D703	G-28	Q201	C-25	Q711	G-29		
D704	H-28	Q241	G-12	Q712	H-29		
D705	I-28	Q251	D-19	Q713	H-29		
D706	G-29	Q252	F-18	Q714	H-29		
D707	C-29	Q301	B-22	Q715	H-29		
D708	G-29	Q302	B-22	Q716	G-29		
D709	I-29	Q303	B-22	Q717	G-29		
D710	I-28	Q304	H-24	Q718	F-29		
D711	F-29	Q305	H-24	Q719	I-29		
D712	D-27	Q306	H-24	Q720	H-29		
D713	D-27	Q307	I-24	Q721	E-29		
D714	E-30	Q308	I-24	Q722	E-29		
D715	E-30	Q309	I-24	Q723	F-29		
D716	D-30	Q310	I-23	Q724	F-32		
D717	E-30	Q311	F-22	Q725	F-32		
D718	B-31	Q312	F-22	Q726	F-34		
D719	F-						

SECTION 4
DIAGRAMS

4-1. Circuit Board Location



4-2. Semiconductor Lead Layouts

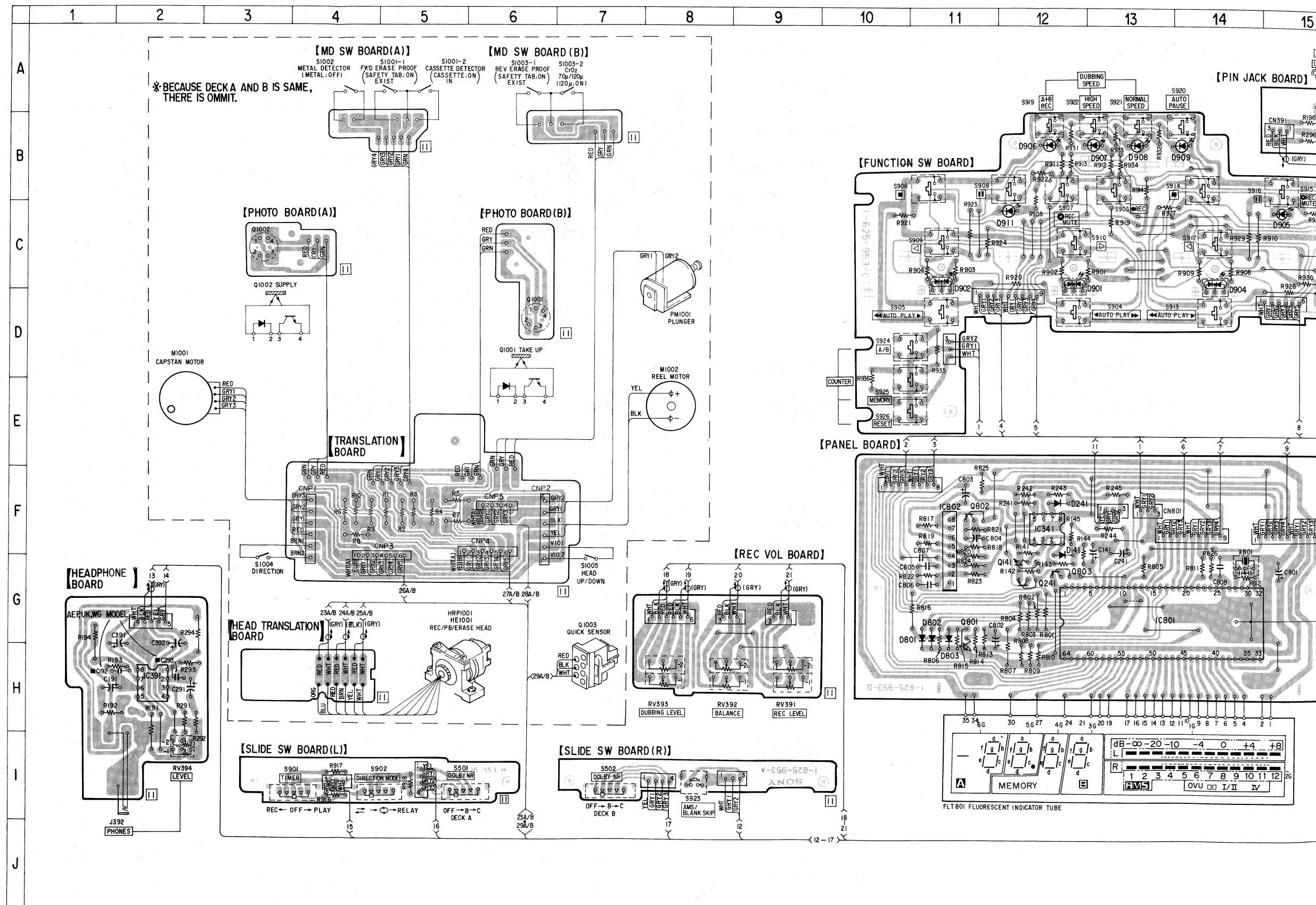
CXA1198P TC4051BP TC4052BP (Top view)	M5218P UPC4570C-1 (Top view)	2SB647 	HZS6A1L HZS7B2L HZS7C1L cathode anode	GL9ND24-YRO 1 2 3
CX20187 (Top view)	M50761-423P (Top view)	2SB1013 2SC2001-L 2SD1387 2SD1388 	US1060M 10E2N cathode anode	
MB88515B-233K M50940-400SP (Top view)	DTA114ES DTA144ES DTC114ES DTC143TS DTC144ES 2SC634SP 2SD1012 	2SB1094-L 2SB1375 2SD1585-L 2SD2012 	SEL2210R SEL2910W-C long short anode cathode	
M4011BP M5066BP M4069UBP (Top view)	2SA1175 2SC3623-L letter side	2SD774-3 	SEL4414G SEL4914D long short anode cathode	
M5218L 				

• Semiconductor Location

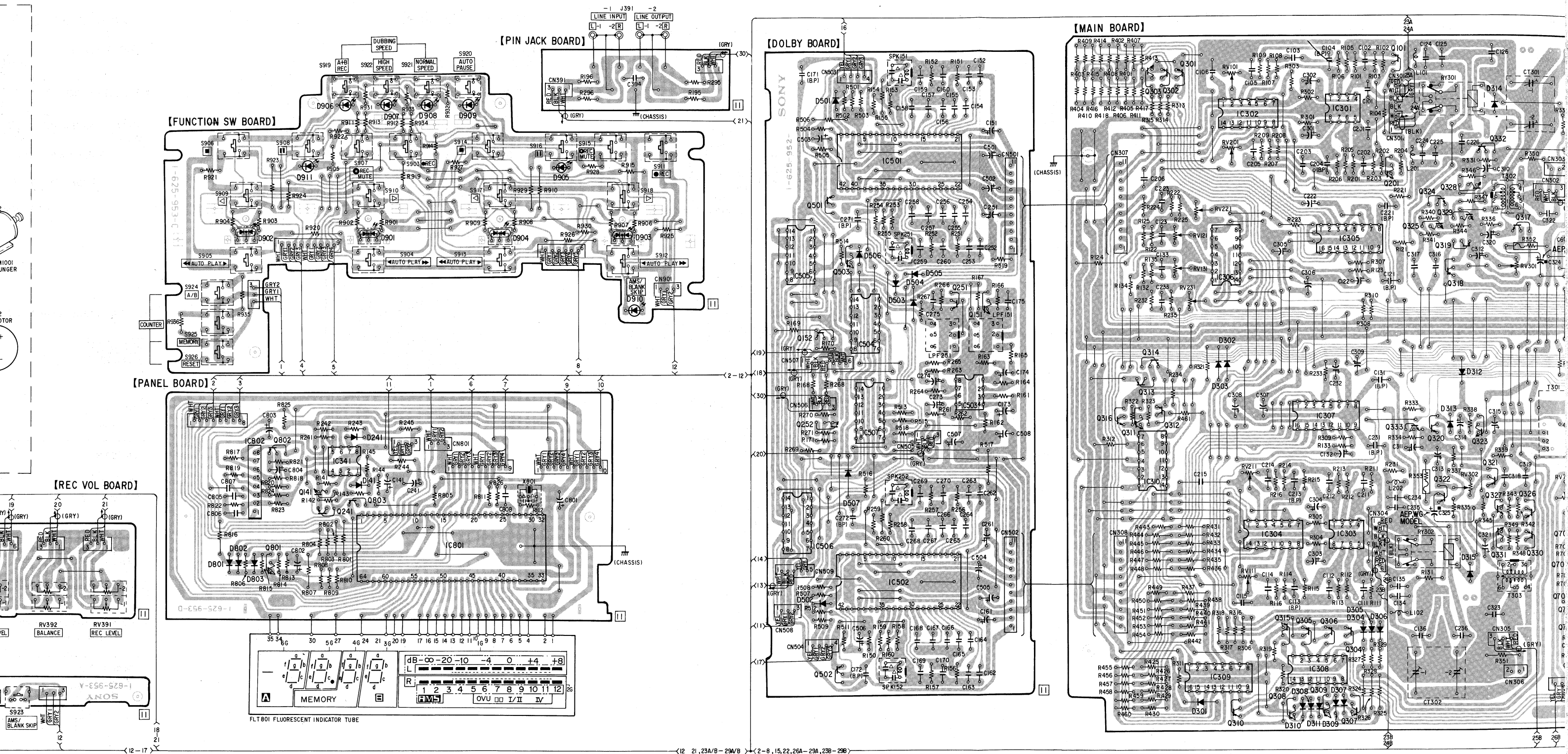
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D141	F-12	D802	G-11	Q316	F-22	Q730	F-33
D241	F-12	D803	G-11	Q317	C-26	Q731	F-33
D301	I-22	D901	C-12	Q318	D-26	Q732	F-33
D302	E-23	D902	C-11	Q319	D-26	Q733	F-33
D303	E-23	D903	C-15	Q320	F-25	Q734	F-33
D304	H-25	D904	C-14	Q321	F-26	Q735	E-31
D305	H-25	D905	C-15	Q322	G-25	Q736	E-30
D306	H-25	D906	B-12	Q323	F-26	Q737	E-30
D307	I-24	D907	B-13	Q324	C-25	Q738	H-34
D308	I-24	D908	B-13	Q325	C-25	Q739	H-34
D309	I-24	D909	B-14	Q326	G-27	Q740	G-34
D310	I-24	D910	D-16	Q327	G-26	Q741	I-34
D311	I-24	D911	C-12	Q328	C-26	Q742	E-31
D312	E-26			Q329	C-26	Q743	E-31
D313	F-26	IC301	B-24	Q330	G-27	Q744	E-31
D314	B-26	IC302	B-23	Q331	G-26	Q745	E-31
D315	G-26	IC303	G-24	Q332	B-26	Q801	G-11
D501	B-18	IC304	G-23	Q333	F-25	Q802	F-11
D502	H-18	IC305	C-24	Q501	C-18	Q803	G-12
D503	D-19	IC306	D-23	Q502	I-18	Q1001	C-3
D504	D-19	IC307	F-24	Q503	D-18	Q1002	D-6
D505	D-19	IC308	I-24	Q601	B-29	Q1003	H-7
D506	D-18	IC309	I-23	Q602	B-29		
D507	F-18	IC310	F-22	Q603	C-28		
D601	C-30	IC341	F-12	Q604	C-28		
D602	C-30	IC391	H-2	Q605	B-27		
D603	C-31	IC501	B-19	Q606	B-28		
D604	C-31	IC502	H-19	Q607	B-28		
D605	C-30	IC503	E-20	Q608	B-29		
D606	C-30	IC504	D-18	Q609	B-30		
D607	C-31	IC505	D-18	Q610	C-29		
D608	C-31	IC506	G-18	Q611	B-30		
D609	C-30	IC507	F-18	Q612	B-30		
D610	C-30	IC701	F-31	Q613	C-29		
D611	C-31	IC702	H-32	Q614	C-29		
D612	C-28	IC703	H-32	Q701	G-27		
D613	C-28	IC704	H-33	Q702	H-27		
D614	D-29	IC705	E-29	Q703	H-27		
D615	B-29	IC801	G-13	Q704	H-28		
D616	B-29	IC802	F-11	Q705	H-27		
D617	C-28			Q706	G-27		
D618	C-29	Q101	A-25	Q707	G-28		
D619	D-29	Q141	G-12	Q708	F-27		
D701	F-28	Q151	D-20	Q709	I-28		
D702	F-27	Q152	E-18	Q710	H-28		
D703	G-28	Q201	C-25	Q711	G-29		
D704	H-28	Q241	G-12	Q712	H-29		
D705	I-28	Q251	D-19	Q713	H-29		
D706	G-29	Q252	F-18	Q714	H-29		
D707	C-29	Q301	B-22	Q715	H-29		
D708	G-29	Q302	B-22	Q716	G-29		
D709	I-29	Q303	B-22	Q717	G-29		
D710	I-28	Q304	H-24	Q718	F-29		
D711	F-29	Q305	H-24	Q719	I-29		
D712	D-27	Q306	H-24	Q720	H-29		
D713	D-27	Q307	I-24	Q721	E-29		
D714	E-30	Q308	I-24	Q722	E-29		
D715	E-30	Q309	I-24	Q723	F-29		
D716	D-30	Q310	I-23	Q724	F-32		
D717	E-30	Q311	F-22	Q725	F-32		
D718	B-31	Q312	F-22	Q726	F-34		
D719	F-29	Q313	E-22	Q727	F-34		
D720	I-34	Q314	E-22	Q728	F-34		
D801	G-11	Q315	H-24	Q729	F-33		

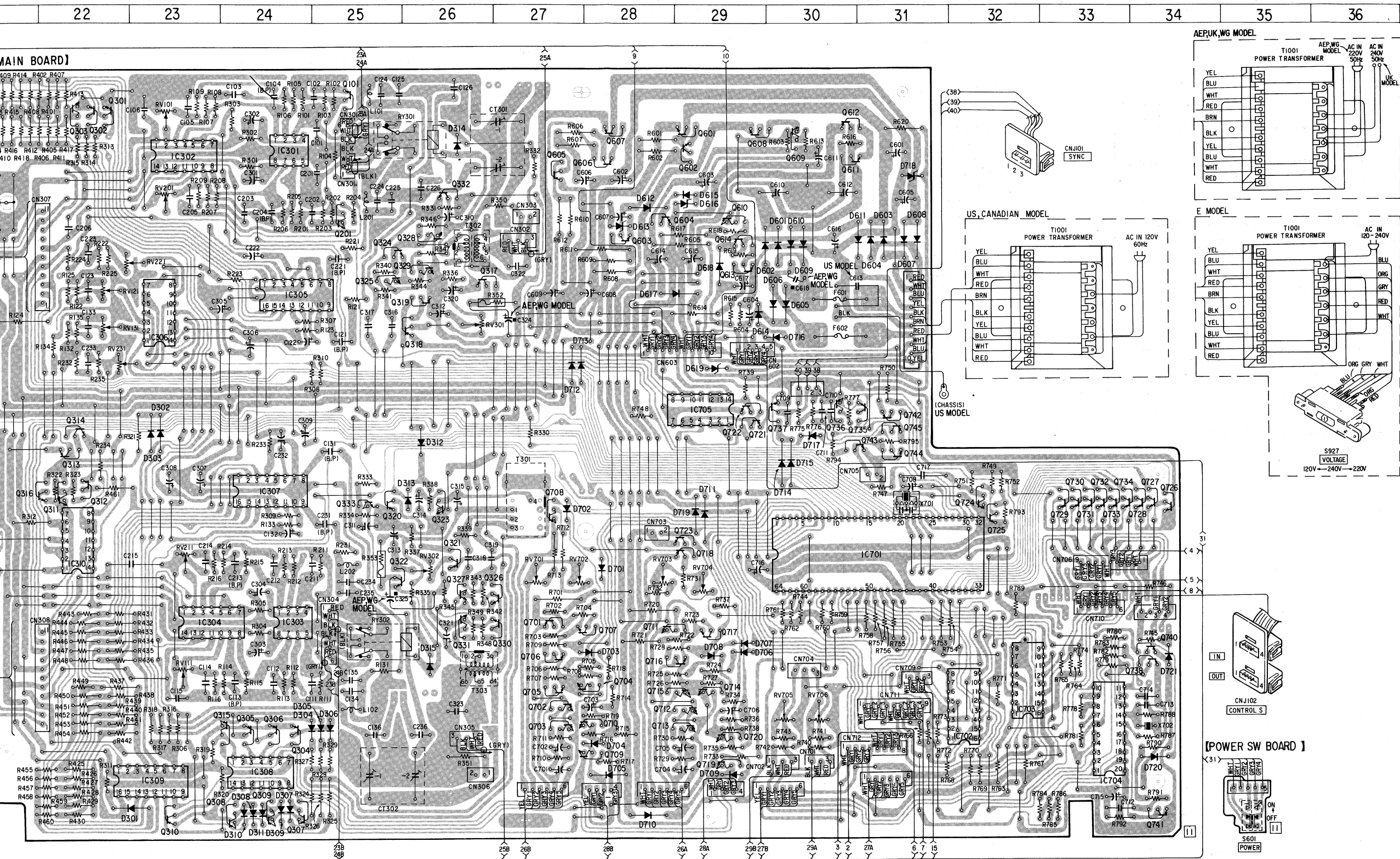
4-3. PRINTED WIRING BOARD

- Refer to page 10 for Semiconductor Lead Layouts.
- Refer to page 11 for Semiconductor Location.



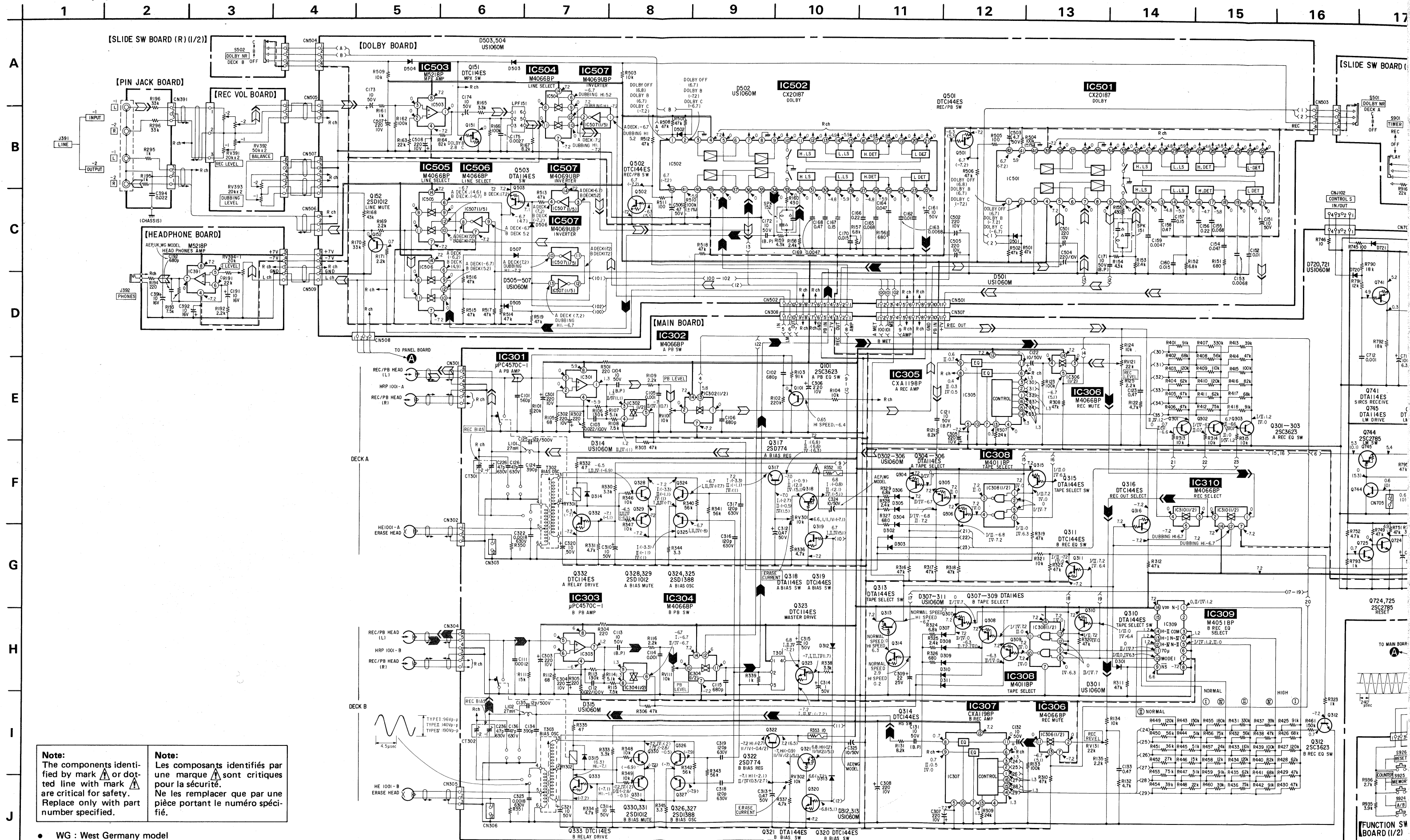
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

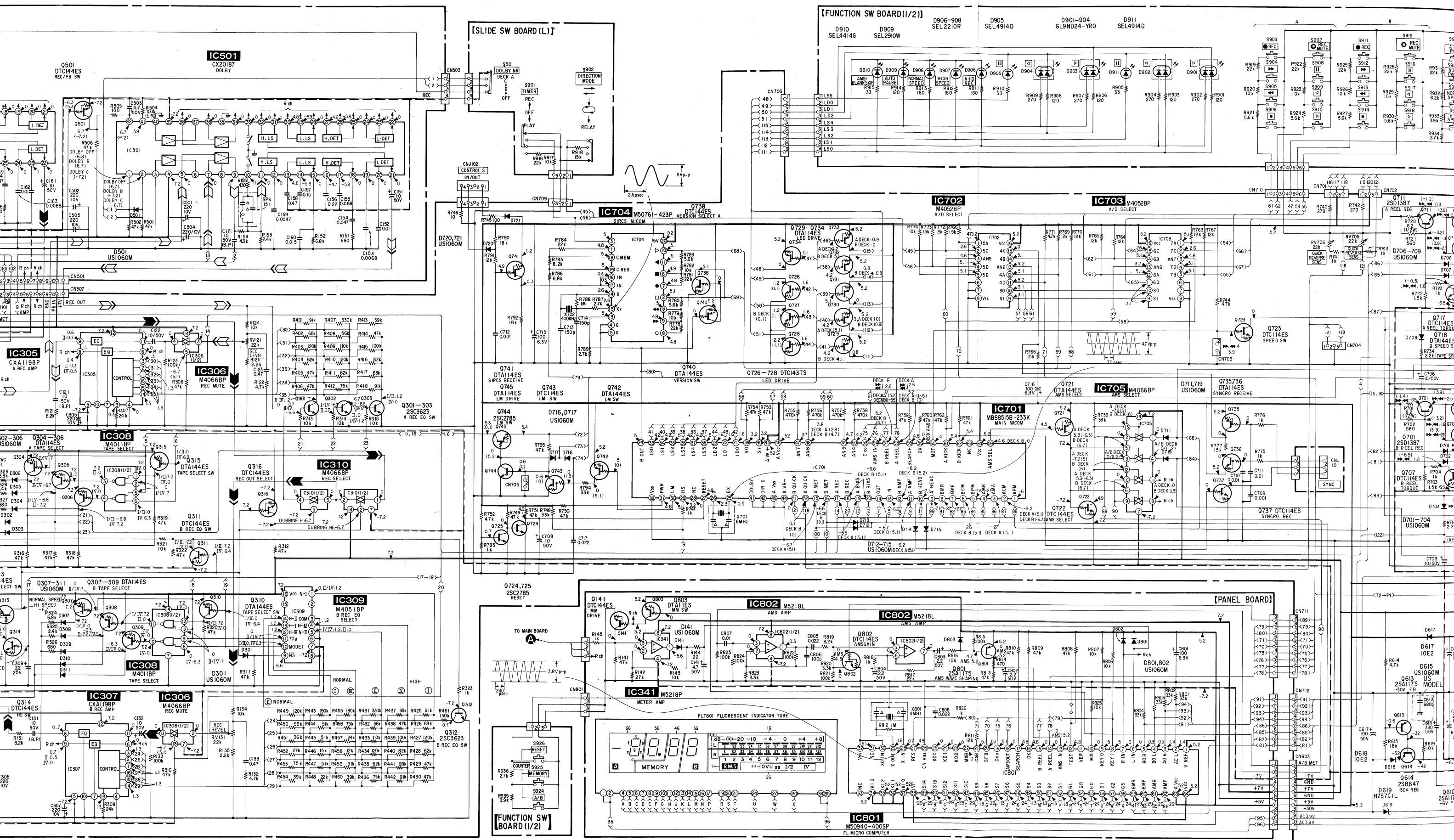


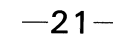


4-4. SCHEMATIC DIAGRAM • Refer to page 22 for note.

TC-WR900 TC-WR900







SECTION 5 EXPLODED VIEWS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- Components for right channel have same values as for left channel. Reference numbers are coded from
- \triangle : internal component.
- --- : fusible resistor.
- --- : B+ Line
- --- : B- Line
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: STOP
() : PB
< > : REC
▶▶ : FF
◀◀ : REW
- Voltages are taken with a VOM (50 k Ω /V).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
▶ : PB (DECK A)
▶▶ : REC (DECK A)
▶▶ : PB (DECK B)
▶▶ : REC (DECK B)
- Switch

Ref.No.	Switch	Position
S501	DOLBY NR(DECK A)	OFF
S502	DOLBY NR(DECK B)	OFF
S601	POWER	OFF
S901	TIMER	OFF
S902	DIRECTION MODE	↔
S903	● (DECK A)	OFF
S904	▶▶ (DECK A)	OFF
S905	◀◀ (DECK A)	OFF
S906	■ (DECK A)	OFF
S907	○ (DECK A)	OFF
S908	▨ (DECK A)	OFF
S909	◁ (DECK A)	OFF
S910	▷ (DECK A)	OFF
S911	● (DECK B)	OFF
S912	▶▶ (DECK B)	OFF
S913	◀◀ (DECK B)	OFF
S914	■ (DECK B)	OFF
S915	○ (DECK B)	OFF
S916	▨ (DECK B)	OFF
S917	◁ (DECK B)	OFF
S918	▷ (DECK B)	OFF
S919	A+B REC	OFF
S920	AUTO PAUSE	OFF
S921	NORMAL SPEED	OFF
S922	HI SPEED	OFF
S923	AMS/BLANK SKIP	OFF
S924	COUNTER A/B	OFF
S925	COUNTER MEMORY	OFF
S926	COUNTER RESET	OFF

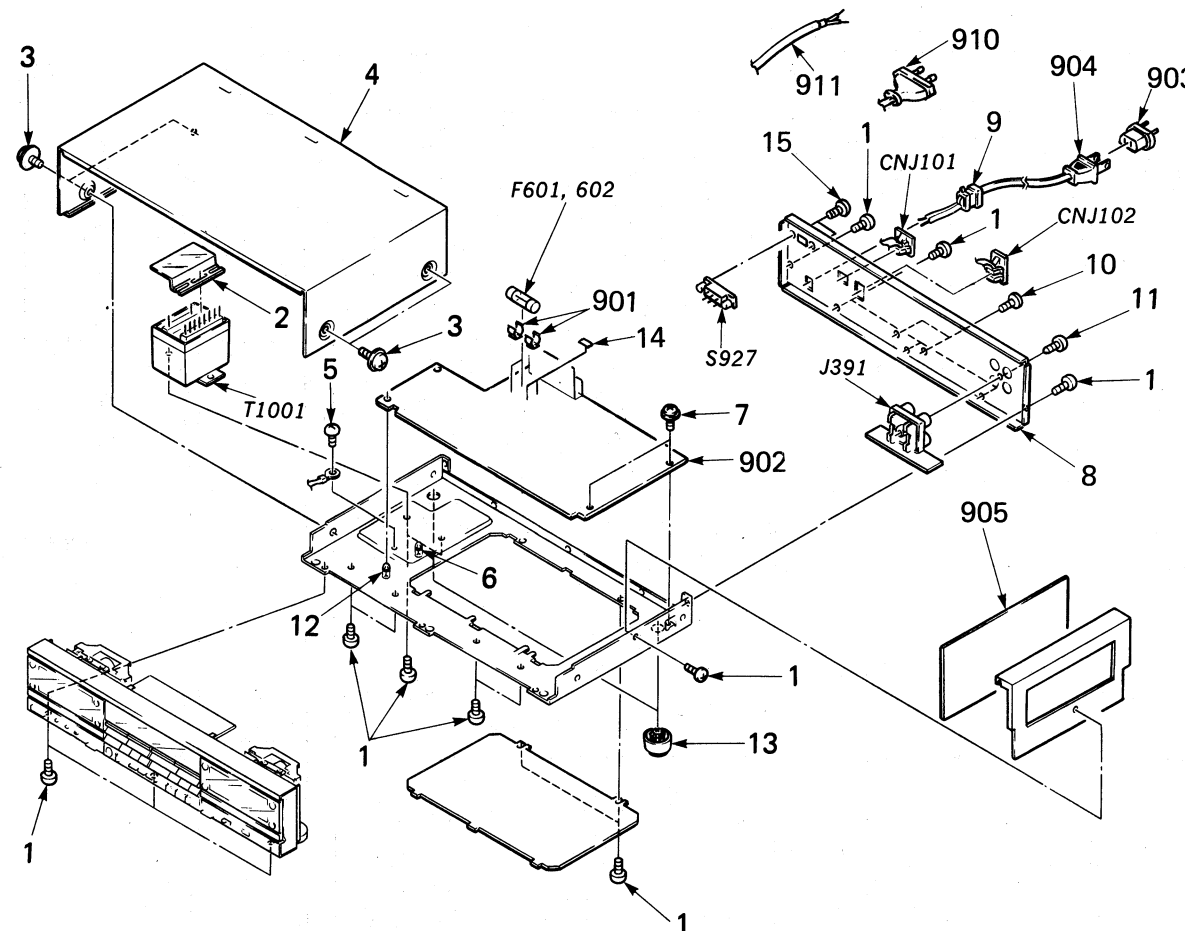
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color
- CND : Canadian model
- WG : West Germany model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

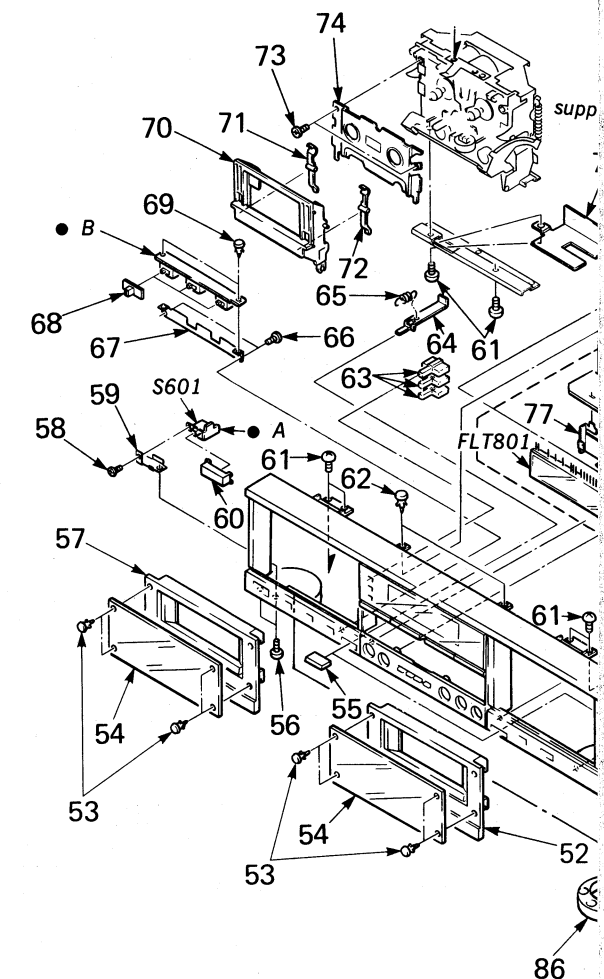
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CABINET SECTION






Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
1	7-685-872-09	SCREW +BVTT 3X8 (S)		902	A-2056-387-A	(US, CND)....MOUNTED PCB, MAIN	
2	*3-337-136-01	COVER, TRANSFORMER SAFETY		902	*A-2056-424-A	(AEP, WG)....MOUNTED PCB, MAIN	
3	3-704-366-01	SCREW (CASE) (M3X8)		902	*A-2056-425-A	(UK, E)....MOUNTED PCB, MAIN	
4	3-340-159-01	CASE		903	\triangle 1-526-565-00	(E)....AC PLUG ADAPTOR	
5	7-682-147-01	SCREW +BVTT 3X6 (S)		904	\triangle 1-551-188-XX	(E)....CORD, POWER	
6	*3-704-198-11	SUPPORT, PC		904	\triangle 1-555-465-00	(US, CND)....CORD, POWER	
7	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6		905	*A-2030-012-A	MOUNTED PCB, DOLBY	
8	*3-340-160-01	(US, CND)....PANEL, BACK		910	\triangle 1-555-795-00	(AEP, WG)....CORD, POWER, EULO PLUG	
8	*3-340-160-11	(UK)....PANEL, BACK		911	\triangle 1-556-035-00	(UK)....CORD, POWER	
8	*3-340-160-31	(AEP, WG)....PANEL, BACK		CNJ101	*1-558-520-11	CORD (WITH CONNECTOR) (SYNC)	
8	*3-340-160-41	(E)....PANEL, BACK		CNJ102	*1-559-235-11	CORD (WITH CONNECTOR) (CONTROL S)	
9	*3-703-244-00	(EXCEPT FOR E)....BUSHING (2104), CORD		F601	\triangle 1-532-203-00	(AEP, WG, UK, E)....FUSE, TIME-LAG 2A 250V	
9	3-703-571-00	(E)....BUSHING (S) (4516), CORD		F601	\triangle 1-532-743-11	(US, CND)....FUSE, GLASS TUBE 2A 125V	
10	7-682-547-09	SCREW +B 3X6		F602	\triangle 1-532-203-00	(AEP, WG, UK, E)....FUSE, TIME-LAG 2A 250V	
11	7-621-849-00	SCREW, TAPPING		F602	\triangle 1-532-743-11	(US, CND)....FUSE, GLASS TUBE 2A 125V	
12	*3-704-198-31	SUPPORT, PC		J391	1-565-258-11	JACK, PIN 4P (LINE INPUT/OUTPUT)	
13	X-4922-001-1	FOOT ASSY		S927	\triangle 1-570-307-11	(E)....SWITCH VOLTAGE CHANGE	
14	3-701-947-14	(AEP, WG, UK, E)....LABEL, FUSE		T1001	\triangle 1-449-213-11	(US, CND)....TRANSFORMER, POWER	
15	7-685-534-19	(E)....SCREW +BTP 2.6X8		T1001	\triangle 1-449-214-11	(AEP, WG, UK)....TRANSFORMER, POWER	
901	1-533-162-00	HOLDER, FUSE		T1001	\triangle 1-449-377-11	(E)....TRANSFORMER, POWER	

5-2. FRONT PANEL SECTION

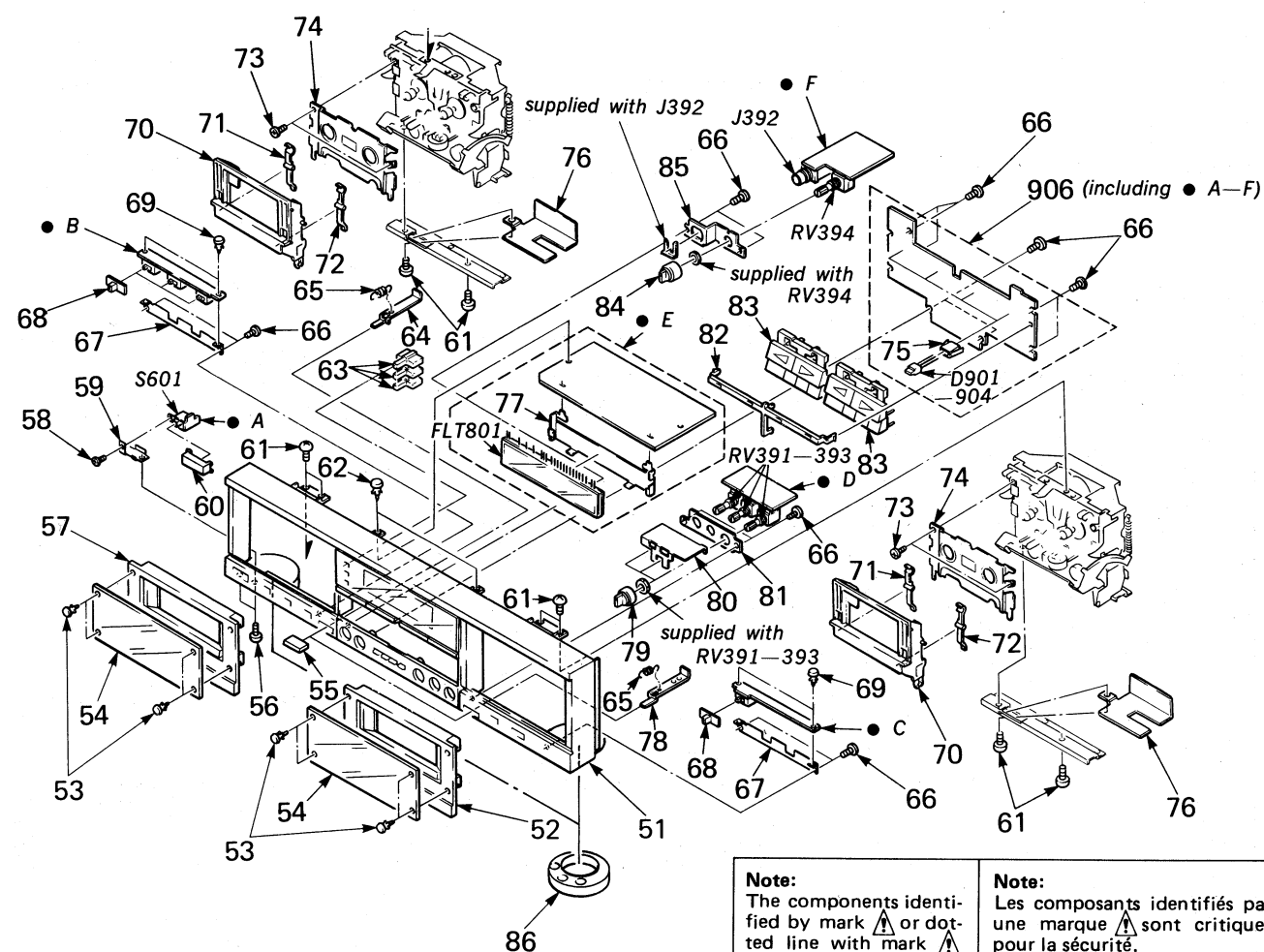




Ref.No	Part No.	Description	Remark
51	X-3332-476-1	PANEL ASSY, FRONT	
52	3-340-181-11	(EXCEPT FOR US)....LID, CASSETTE (B)	
52	3-340-181-21	(US)LID, CASSETTE (B)	
53	3-337-123-01	PIN, STOPPER, CASSETTE WINDOW	
54	3-340-182-01	WINDOW (CASSETTE)	
55	3-340-188-01	BUTTON (EJECT)	
56	7-627-556-28	SCREW +P 2.6X3.5	
57	3-340-181-01	LID, CASSETTE (A)	
58	7-621-255-25	SCREW +P 2X4	
59	*3-340-178-01	BRACKET (POWER SW)	
60	3-340-168-01	BUTTON (POWER SW)	
61	7-685-872-09	SCREW +BVTT 3X8 (S)	
62	3-531-576-31	RIVET (DIA. 3), NYLON	
63	3-340-170-01	BUTTON (A)	
64	*3-340-179-01	SLIDER (LEFT)	
65	3-491-360-00	SPRING, TENSION	
66	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S	
67	*3-340-175-01	BRACKET (SLIDE SW)	
68	3-343-612-11	KNOB (SLIDE)	
69	*3-531-576-51	RIVET	
70	X-3332-448-1	HOLDER ASSY, CASSETTE	


Components identified by  or dotted line with mark  are critical for safety. Replace only with part number specified.

Composants identifiés par une  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-2. FRONT PANEL SECTION

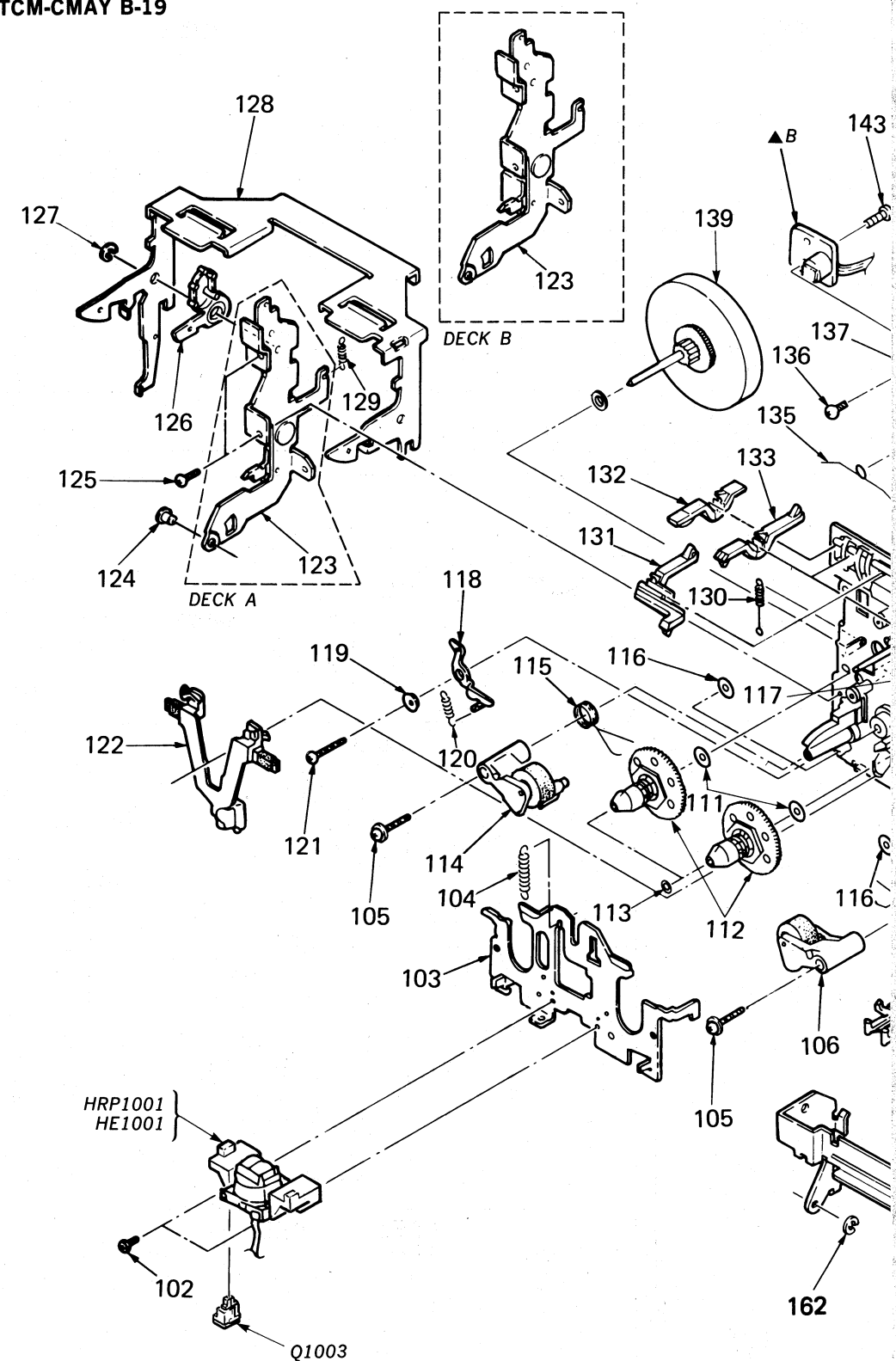


Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-3. MECHANISM SECTION

DECK A : TCM-CMAY B-18
DECK B : TCM-CMAY B-19

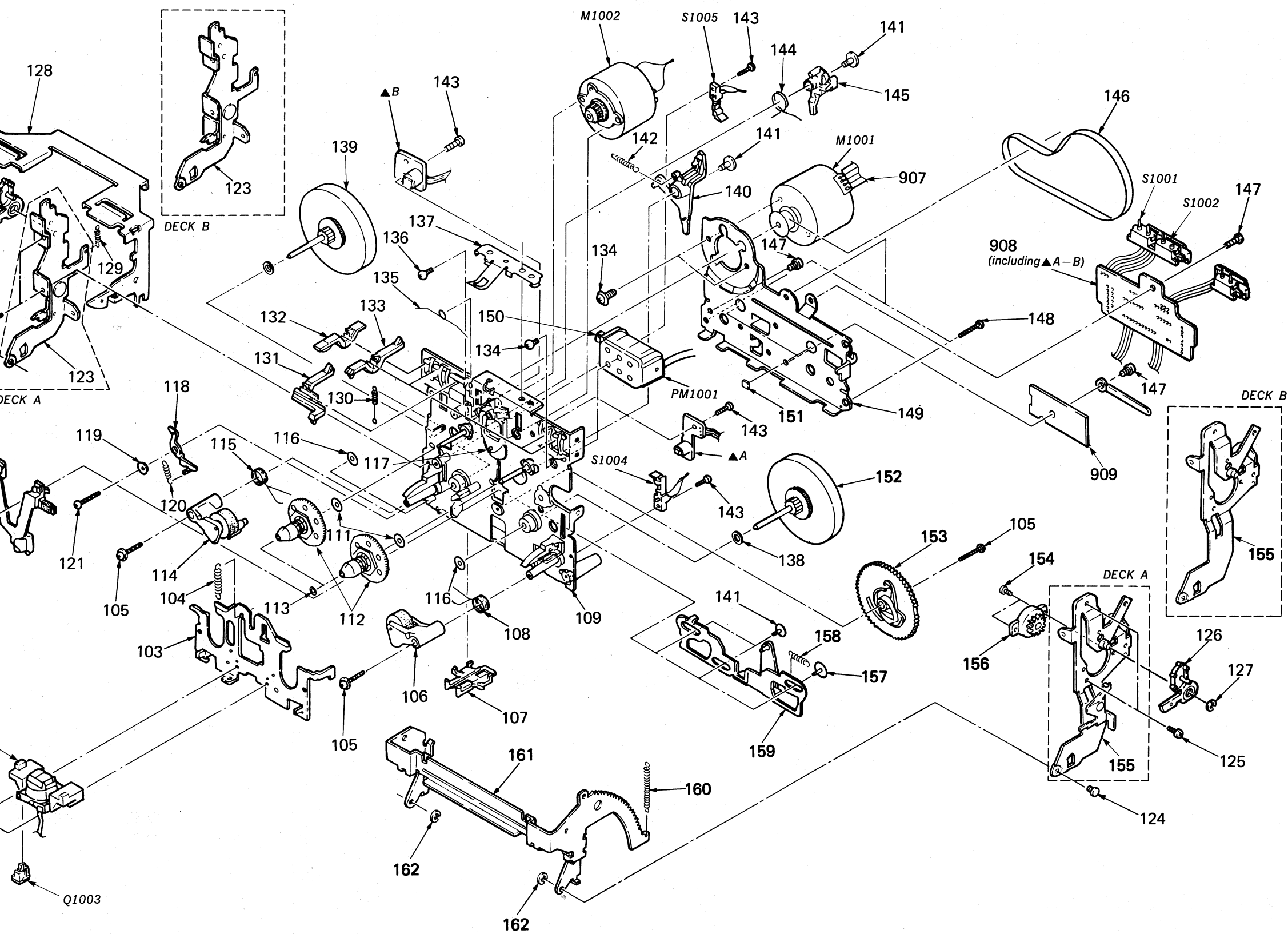


Remark

OUNTED PCB, MAIN
OUNTED PCB, MAIN
ITED PCB, MAIN
ADAPTOR
WER
RD, POWER
DOLBY
RD, POWER, EULO PLUG
OWER
NNECTOR) (SYNC)
NNECTOR) (CONTROL S)
... FUSE, TIME-LAG 2A 250V
SE, GLASS TUBE 2A 125V
... FUSE, TIME-LAG 2A 250V
SE, GLASS TUBE 2A 125V
NE INPUT/OUTPUT)
OLTAGE CHANGE
ANSFORMER, POWER
... TRANSFORMER, POWER
RMER, POWER

Ref.No	Part No.	Description	Remark
51	X-3332-476-1	PANEL ASSY, FRONT	
52	3-340-181-11	(EXCEPT FOR US)....LID, CASSETTE (B)	
52	3-340-181-21	(US)LID, CASSETTE (B)	
53	3-337-123-01	PIN, STOPPER, CASSETTE WINDOW	
54	3-340-182-01	WINDOW (CASSETTE)	
55	3-340-188-01	BUTTON (EJECT)	
56	7-627-556-28	SCREW +P 2.6X3.5	
57	3-340-181-01	LID, CASSETTE (A)	
58	7-621-255-25	SCREW +P 2X4	
59	*3-340-178-01	BRACKET (POWER SW)	
60	3-340-168-01	BUTTON (POWER SW)	
61	7-685-872-09	SCREW +BVT 3X8 (S)	
62	3-531-576-31	RIVET (DIA. 3), NYLON	
63	3-340-170-01	BUTTON (A)	
64	*3-340-179-01	SLIDER (LEFT)	
65	3-491-360-00	SPRING, TENSION	
66	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S	
67	*3-340-175-01	BRACKET (SLIDE SW)	
68	3-343-612-11	KNOB (SLIDE)	
69	*3-531-576-51	RIVET	
70	X-3332-448-1	HOLDER ASSY, CASSETTE	

Ref.No	Part No.	Description	Remark
71	3-307-371-00	SPRING (LEFT)	
72	3-307-372-00	SPRING (RIGHT)	
73	7-621-772-00	SCREW +B 2X3	
74	*3-332-547-01	PLATE, ORNAMENTAL	
75	*3-340-183-01	HOLDER (D), LED	
76	*3-340-163-01	PLATE (MD), SHIELD	
77	*3-340-192-01	HOLDER (FL)	
78	*3-340-180-01	SLIDER (RIGHT)	
79	3-304-929-11	KNOB, HEADPHONE	
80	*3-340-186-01	PLATE (VOL), SHIELD	
81	*3-340-177-01	BRACKET (R VOL)	
82	3-340-189-01	ESCUTCHEON	
83	X-3332-473-1	BUTTON ASSY	
84	3-304-929-21	KNOB, HEADPHONE	
85	*3-340-176-01	BRACKET (HP VOL)	
86	3-332-580-01	(AEP)....COVER (FOOT)	
86	3-332-580-11	(WG)....COVER (FOOT)	
906	A-2095-624-A	(US, CND, E)....MOUNTED PCB, PANEL	
906	*A-2095-643-A	(AEP, WG, UK)....MOUNTED PCB, PANEL	
FLT801	1-519-445-21	INDICATOR TUBE, FLUORESCENT	
S601	*1-553-336-21	SWITCH, PUSH (POWER)	



Ref.No	Part No.	Description	Remark
102	7-685-782-01	SCREW +PTT 2X5 (S)	
103	*3-392-706-01	BASE, HEAD	
104	3-391-114-01	SPRING	
105	7-685-107-19	SCREW +P 2X12 TYPE2 SLIT	
106	X-3391-104-1	PINCH ROLLER ASSY	
107	3-391-137-01	HOLDER, REED	
108	3-391-115-01	SPRING (RIGHT)	
109	X-3391-110-1	CHASSIS, SUB ASSY	
110	3-391-119-01	SEAL, WASHER OIL	
111	3-701-437-11	WASHER	
112	X-3391-142-1	REEL ASSY, T	
113	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
114	X-3391-105-1	PINCH ROLLER ASSY	
115	3-391-116-01	SPRING (LEFT)	
116	3-391-117-01	SEAL, WASHER OIL	
117	X-3391-111-1	IDLER ASSY	
118	3-391-121-01	ARM, EJECT SAFETY	
119	3-391-120-01	CALLOR	
120	3-391-122-01	SPRING (A)	
121	7-685-106-19	SCREW +P 2X10 TYPE2 SLIT	
122	X-3391-108-1	BRAKE ASSY	
123	*X-3391-159-1	(DECK B)ARM ASSY, EJECT	
123	*X-3391-163-1	(DECK A)ARM ASSY, EJECT	
124	3-391-183-01	SHAFT (B), HOLDER FULCRUM	
125	7-621-773-86	SCREW +PTT 2.6X4 (S)	
126	3-391-185-01	LEVER, STOP	
127	7-624-105-04	STOP RING 2.3, TYPE -E	
128	*3-391-180-01	ARM, EJECT	
129	3-391-181-01	SP, LEVER RETURN	
130	3-391-139-01	SPRING	
131	3-392-703-01	LEVER	
132	3-391-196-01	LEVER	
133	3-392-702-01	LEVER	
134	7-621-759-25	+PSW, 2.6X4	
135	3-391-124-01	SPRING	
136	7-628-254-10	SCREW +PS 2.6X6	
137	3-391-177-01	SPRING	
138	3-701-438-11	WASHER, 2.5	
139	X-3391-129-1	ASSY F/W	

Ref.No	Part No.	Description	Remark
140	X-3391-146-1	ARM ASSY, PLAY	
141	3-391-126-01	CAP	
142	3-391-133-01	SPRING	
143	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT	
144	3-391-199-01	SPRING	
145	*3-392-701-01	ARM, DIRECTION	
146	3-391-134-01	BELT, MAIN	
147	7-682-546-04	SCREW +PTT 3X5 (S)	
148	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
149	*3-391-130-01	BRACKET (B), F/W	
150	*3-392-707-01	SOLENOID (ARBOR)	
151	3-391-169-01	SPACER, SQUER	
152	X-3391-133-1	ASSY F/W	
153	3-391-197-01	GEAR (I), CAM	
154	7-621-255-15	SCREW +PTT 2X3 (S)	
155	*X-3391-158-1	(DECK B)BKT ASSY, DAMPER	
155	*X-3391-162-1	(DECK A)BKT ASSY, DAMPER	
156	X-3391-151-1	DAMPER ASSY	
157	3-391-143-01	CAP	
158	3-391-127-01	SPRING	
159	X-3391-112-1	SLIDER, SUB ASSY	
160	3-391-184-01	SPRING	
161	*X-3391-164-1	CASSETTE ASSY, SUPPORT	
162	7-624-104-04	STOP RING 2.0, TYPE -E	
907	*3-391-166-01	WIRE, JUMPER, 4 ARBOR	
908	*3-392-704-01	PC BOARD, TRANS LATION	
909	*3-391-173-01	PANEL, HEAD RELAY	
	HRP1001*	X-3391-160-1 HEAD ASSY, ROTARY (HE1001)	
M1001	X-3391-155-1	MOTOR ASSY (MAIN)	
M1002	X-3391-156-1	MOTOR ASSY (REEL)	
PM1001	1-454-440-11	SOLENOID, PLUNGER	
Q1003	X-3391-161-1	SENSOR ASSY	
S1001	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1002	1-570-723-11	SWITCH, PUSH (1 KEY)	
S1003	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1004	1-570-721-11	SWITCH, LEAF	
S1005	1-570-721-11	SWITCH, LEAF	

SECTION 6 ELECTRICAL PARTS LILST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ PF.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD....

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- CND : Canadian model



- WG : West Germany model

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
901	1-533-162-00	HOLDER, FUSE		C162	1-136-153-00	FILM	0.01MF 5% 50V
902	A-2056-387-A	(US, CND)....MOUNTED PCB, MAIN		C163	1-130-481-00	MYLAR	0.0068MF 5% 50V
902	*A-2056-424-A	(AEP, WG)....MOUNTED PCB, MAIN		C164	1-136-161-00	FILM	0.047MF 5% 50V
902	*A-2056-525-A	(UK, E)....MOUNTED PCB, MAIN		C165	1-136-163-00	FILM	0.068MF 5% 50V
903	Δ 1-526-565-00	(E)....AC PLUG ADAPTOR		C166	1-136-169-00	FILM	0.22MF 5% 50V
904	Δ 1-555-465-00	(US, CND)....CORD, POWER		C167	1-136-167-00	FILM	0.15MF 5% 50V
904	Δ 1-551-188-XX	(E)....CORD, POWER		C168	1-136-173-00	FILM	0.47MF 5% 50V
905	*A-2030-012-A	MOUNTED PCB, DOLBY		C169	1-130-479-00	MYLAR	0.0047MF 5% 50V
906	A-2095-624-A	(US, CND, E)....MOUNTED PCB, PANEL		C170	1-136-155-00	FILM	0.015MF 5% 50V
906	*A-2095-643-A	(AEP, UK, WG)....MOUNTED PCB, PANEL		C171	1-124-657-00	ELECT	10MF 20% 50V
907	*3-391-166-01	WIRE, JUMPER, 4 ARBOR		C172	1-124-657-00	ELECT	10MF 20% 50V
908	*3-392-704-01	PC BOARD, TRANSLATION		C173	1-123-875-11	ELECT	10MF 20% 50V
909	*3-391-173-01	PANEL, HEAD RELAY		C174	1-123-875-11	ELECT	10MF 20% 50V
910	Δ 1-555-795-00	(AEP, WG)....CORD, POWER, EULO PLUG		C175	1-130-476-00	MYLAR	0.0027MF 5% 50V
911	Δ 1-556-035-00	(UK)....CORD, POWER		C191	1-126-157-11	ELECT	10MF 20% 16V
CAPACITOR				C192	1-162-292-11	(AEP, UK, WG)CERAMIC	680PF 10% 50V
C101	1-130-468-00	MYLAR	560PF 5% 50V	C201	1-130-468-00	MYLAR	560PF 5% 50V
C102	1-130-469-00	MYLAR	680PF 5% 50V	C202	1-130-469-00	MYLAR	680PF 5% 50V
C103	1-130-973-00	FILM	0.022MF 5% 100V	C203	1-130-973-00	FILM	0.022MF 5% 100V
C104	1-124-657-00	ELECT	10MF 20% 50V	C204	1-124-657-00	ELECT	10MF 20% 50V
C105	1-162-294-31	CERAMIC	0.001MF 10% 50V	C205	1-162-294-31	CERAMIC	0.001MF 10% 50V
C106	1-162-292-31	CERAMIC	680PF 10% 50V	C206	1-162-292-31	CERAMIC	680PF 10% 50V
C111	1-130-472-00	MYLAR	0.0012MF 5% 50V	C211	1-130-472-00	MYLAR	0.0012MF 5% 50V
C112	1-130-973-00	FILM	0.022MF 5% 100V	C212	1-130-973-00	FILM	0.022MF 5% 100V
C113	1-124-657-00	ELECT	10MF 20% 50V	C213	1-124-657-00	ELECT	10MF 20% 50V
C114	1-162-294-31	CERAMIC	0.001MF 10% 50V	C214	1-162-294-31	CERAMIC	0.001MF 10% 50V
C115	1-162-292-31	CERAMIC	680PF 10% 50V	C215	1-162-292-31	CERAMIC	680PF 10% 50V
C121	1-124-657-00	ELECT	10MF 20% 50V	C221	1-124-657-00	ELECT	10MF 20% 50V
C122	1-123-875-11	ELECT	10MF 20% 50V	C222	1-123-875-11	ELECT	10MF 20% 50V
C123	1-136-173-00	FILM	0.47MF 5% 50V	C223	1-136-173-00	FILM	0.47MF 5% 50V
C124	1-162-289-31	CERAMIC	390PF 10% 50V	C224	1-162-289-31	CERAMIC	390PF 10% 50V
C125	1-107-204-00	MICA	12PF 5% 500V	C225	1-107-204-00	MICA	12PF 5% 500V
C126	1-136-270-11	FILM	47PF 5% 630V	C226	1-136-270-11	FILM	47PF 5% 630V
C131	1-124-657-00	ELECT	10MF 20% 50V	C231	1-124-657-00	ELECT	10MF 20% 50V
C132	1-123-875-11	ELECT	10MF 20% 50V	C232	1-123-875-11	ELECT	10MF 20% 50V
C133	1-136-173-00	FILM	0.47MF 5% 50V	C233	1-136-173-00	FILM	0.47MF 5% 50V
C134	1-162-289-31	CERAMIC	390PF 10% 50V	C234	1-162-289-31	CERAMIC	390PF 10% 50V
C135	1-107-204-00	MICA	12PF 5% 500V	C235	1-107-204-00	MICA	12PF 5% 500V
C136	1-136-270-11	FILM	47PF 5% 630V	C236	1-136-270-11	FILM	47PF 5% 630V
C141	1-124-927-11	ELECT	4.7MF 20% 50V	C241	1-124-927-11	ELECT	4.7MF 20% 50V
C151	1-123-875-11	ELECT	10MF 20% 50V	C251	1-123-875-11	ELECT	10MF 20% 50V
C152	1-136-153-00	FILM	0.01MF 5% 50V	C252	1-136-153-00	FILM	0.01MF 5% 50V
C153	1-130-481-00	MYLAR	0.0068MF 5% 50V	C253	1-130-481-00	MYLAR	0.0068MF 5% 50V
C154	1-136-161-00	FILM	0.047MF 5% 50V	C254	1-136-161-00	FILM	0.047MF 5% 50V
C155	1-136-163-00	FILM	0.068MF 5% 50V	C255	1-136-163-00	FILM	0.068MF 5% 50V
C156	1-136-169-00	FILM	0.22MF 5% 50V	C256	1-136-169-00	FILM	0.22MF 5% 50V
C157	1-136-167-00	FILM	0.15MF 5% 50V	C257	1-136-167-00	FILM	0.15MF 5% 50V
C158	1-136-173-00	FILM	0.47MF 5% 50V	C258	1-136-173-00	FILM	0.47MF 5% 50V
C159	1-130-479-00	MYLAR	0.0047MF 5% 50V	C259	1-130-479-00	MYLAR	0.0047MF 5% 50V
C160	1-136-155-00	FILM	0.015MF 5% 50V	C260	1-136-155-00	FILM	0.015MF 5% 50V
C161	1-123-875-11	ELECT	10MF 20% 50V	C261	1-123-875-11	ELECT	10MF 20% 50V
				C262	1-136-153-00	FILM	0.01MF 5% 50V


Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
C263	1-130-481-00	MYLAR	0.0068MF 5% 50V	C615	1-124-444-00	ELECT	220MF 20% 10V
C264	1-136-161-00	FILM	0.047MF 5% 50V	C616	1-124-912-11	ELECT	330MF 20% 50V
C265	1-136-163-00	FILM	0.068MF 5% 50V	C617	1-124-122-11	ELECT	100MF 20% 50V
C266	1-136-169-00	FILM	0.22MF 5% 50V	C618	1-101-005-91	(AEP, WG)....ELECT	0.022MF 50V
C267	1-136-167-00	FILM	0.15MF 5% 50V	C701	1-124-446-11	ELECT	47MF 20% 10V
C268	1-136-173-00	FILM	0.47MF 5% 50V	C702	1-124-446-11	ELECT	47MF 20% 10V
C269	1-130-479-00	MYLAR	0.0047MF 5% 50V	C703	1-123-875-11	ELECT	10MF 20% 50V
C270	1-136-155-00	FILM	0.015MF 5% 50V	C704	1-124-446-11	ELECT	47MF 20% 10V
C271	1-124-657-00	ELECT	10MF 20% 50V	C705	1-124-446-11	ELECT	47MF 20% 10V
C272	1-124-657-00	ELECT	10MF 20% 50V	C706	1-123-875-11	ELECT	10MF 20% 50V
C273	1-123-875-11	ELECT	10MF 20% 50V	C708	1-123-875-11	ELECT	10MF 20% 50V
C274	1-123-875-11	ELECT	10MF 20% 50V	C709	1-162-294-31	CERAMIC	0.001MF 10% 50V
C275	1-130-476-00	MYLAR	0.0027MF 5% 50V	C710	1-161-379-00	CERAMIC	0.01MF 30% 16V
C291	1-126-157-11	ELECT	10MF 20% 16V	C711	1-161-379-00	CERAMIC	0.01MF 30% 16V
C292	1-162-292-11	(AEP, UK, WG)CERAMIC	680PF 10% 50V	C712	1-162-294-31	CERAMIC	0.001MF 10% 50V
C301	1-124-444-00	ELECT	220MF 20% 10V	C713	1-162-284-31	CERAMIC	150PF 10% 50V
C302	1-124-444-00	ELECT	220MF 20% 10V	C714	1-162-284-31	CERAMIC	150PF 10% 50V
C303	1-124-444-00	ELECT	220MF 20% 10V	C715	1-124-443-00	ELECT	100MF 20% 6.3V
C304	1-124-444-00	ELECT	220MF 20% 10V	C716	1-124-443-00	ELECT	100MF 20% 6.3V
C305	1-124-444-00	ELECT	220MF 20% 10V	C717	1-161-494-00	CERAMIC	0.022MF 25V
C306	1-124-444-00	ELECT	220MF 20% 10V	C801	1-124-443-00	ELECT	100MF 20% 6.3V
C307	1-124-444-00	ELECT	220MF 20% 10V	C802	1-124-925-11	ELECT	2.2MF 20% 50V
C308	1-124-444-00	ELECT	220MF 20% 10V	C803	1-124-925-11	ELECT	2.2MF 20% 50V
C309	1-124-908-11	ELECT	22MF 20% 25V	C804	1-124-925-11	ELECT	2.2MF 20% 50V
C310	1-123-875-11	ELECT	10MF 20% 50V	C805	1-161-494-00	CERAMIC	0.022MF 25V
C311	1-123-875-11	ELECT	10MF 20% 50V	C806	1-162-282-31	CERAMIC	100PF 10% 50V
C312	1-124-902-00	ELECT	0.47MF 20% 50V	C807	1-161-379-00	CERAMIC	0.01MF 30% 16V
C313	1-124-902-00	ELECT	0.47MF 20% 50V	C808	1-161-494-00	CERAMIC	0.022MF 25V
C314	1-124-499-11	ELECT	1MF 20% 50V	CN301 *1-564-509-11	PLUG, CONNECTOR 6P		
C315	1-123-875-11	ELECT	10MF 20% 50V	CN302 *1-564-506-11	PLUG, CONNECTOR 3P		
C316	1-136-434-11	FILM	120PF 5% 630V	CN303 *1-564-505-21	PLUG, CONNECTOR 2P		
C317	1-136-434-11	FILM	120PF 5% 630V	CN304 *1-564-509-11	PLUG, CONNECTOR 6P		
C318	1-136-434-11	FILM	120PF 5% 630V	CN305 *1-564-506-11	PLUG, CONNECTOR 3P		
C319	1-136-434-11	FILM	120PF 5% 630V	CN306 *1-564-505-21	PLUG, CONNECTOR 2P		
C320	1-123-875-11	ELECT	10MF 20% 50V	CN307 *1-506-534-11	PIN, CONNECTOR 11P		
C321	1-123-875-11	ELECT	10MF 20% 50V	CN308 *1-506-534-11	PIN, CONNECTOR 11P		
C322	1-136-554-11	FILM	0.0018MF 5% 630V	CN391 *1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
C323	1-136-554-11	FILM	0.0018MF 5% 630V	CN501 *1-563-662-11	CONNECTOR 11P		
C324	1-123-875-11	(AEP, WG)....ELECT	10MF 50V	CN502 *1-563-662-11	CONNECTOR 11P		
C325	1-123-875-11	(AEP, WG)....ELECT	10MF 50V	CN503 *1-564-338-61	PIN, CONNECTOR 4P		
C391	1-126-157-11	ELECT	10MF 20% 16V	CN504 *1-564-338-51	PIN, CONNECTOR 4P		
C392	1-126-157-11	ELECT	10MF 20% 16V	CN505 *1-564-705-21	PIN, CONNECTOR (SMALL TYPE) 3P		
C394	1-161-494-00	CERAMIC	0.022MF 25V	CN506 *1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
C501	1-124-444-00	ELECT	220MF 20% 10V	CN507 *1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P		
C502	1-124-444-00	ELECT	220MF 20% 10V	CN508 *1-564-337-51	PIN, CONNECTOR 3P		
C503	1-124-927-11	ELECT	4.7MF 20% 50V	CN509 *1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		
C504	1-124-444-00	ELECT	220MF 20% 10V	CN602 *1-564-339-51	PIN, CONNECTOR 5P		
C505	1-124-444-00	ELECT	220MF 20% 10V	CN603 *1-564-666-11	PIN, CONNECTOR 10P		
C506	1-124-927-11	ELECT	4.7MF 20% 50V	CN701 *1-564-506-11	PLUG, CONNECTOR 3P		
C507	1-124-444-00	ELECT	220MF 20% 10V	CN702 *1-564-506-11	PLUG, CONNECTOR 3P		
C508	1-124-444-00	ELECT	220MF 20% 10V	CN703 *1-564-505-21	PLUG, CONNECTOR 2P		
C601	1-124-360-00	ELECT	1000MF 20% 16V	CN704 *1-564-506-11	PLUG, CONNECTOR 3P		
C602	1-124-120-11	ELECT	220MF 20% 16V	CN705 *1-564-505-21	PLUG, CONNECTOR 2P		
C603	1-126-101-11	ELECT	100MF 20% 16V	CN706 *1-506-503-61	PIN, CONNECTOR 9P		
C604	1-124-927-11	ELECT	4.7MF 20% 50V	CN709 *1-564-337-51	PIN, CONNECTOR 3P		
C605	1-124-360-00	ELECT	1000MF 20% 16V	CN710 *1-564-340-51	PIN, CONNECTOR 6P		
C606	1-124-120-11	ELECT	220MF 20% 16V	CN711 *1-506-503-11	PIN, CONNECTOR 9P		
C607	1-124-443-00	ELECT	100MF 20% 10V	CN712 *1-564-342-51	PIN, CONNECTOR 8P		
C608	1-124-472-11	ELECT	470MF 20% 10V	CN801 *1-564-337-51	PIN, CONNECTOR 3P		
C609	1-124-472-11	ELECT	470MF 20% 10V	CN901 *1-564-496-11	PIN, CONNECTOR 3P		
C610	1-124-898-11	ELECT	4700MF 20% 16V	CNJ101 *1-558-520-11	CORD (WITH CONNECTOR) (SYNC)		
C611	1-124-927-11	ELECT	4.7MF 20% 50V	CNJ102 *1-559-235-11	CORD (WITH CONNECTOR) (CONTROL S)		
C612	1-124-898-11	ELECT	4700MF 20% 16V	CT301	1-141-225-00	CAP, TUNING, TRIMAR	
C613	1-162-292-31	(US)CERAMIC	680PF 10% 50V	CT302	1-141-225-00	CAP, TUNING, TRIMAR	
C614	1-124-444-00	ELECT	220MF 20% 10V				

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
D141	8-719-000-26	DIODE US1060M		D802	8-719-000-26	DIODE US1060M	
D241	8-719-000-26	DIODE US1060M		D803	8-719-000-26	DIODE US1060M	
D301	8-719-000-26	DIODE US1060M		D901	8-719-945-12	DIODE GL-9ND24-YRO	
D302	8-719-000-26	DIODE US1060M		D902	8-719-945-12	DIODE GL-9ND24-YRO	
D303	8-719-000-26	DIODE US1060M		D903	8-719-945-12	DIODE GL-9ND24-YRO	
D304	8-719-000-26	DIODE US1060M		D904	8-719-945-12	DIODE GL-9ND24-YRO	
D305	8-719-000-26	DIODE US1060M		D905	8-719-303-84	DIODE SEL4914D	
D306	8-719-000-26	DIODE US1060M		D906	8-719-300-71	DIODE SEL2210R	
D307	8-719-000-26	DIODE US1060M		D907	8-719-300-71	DIODE SEL2210R	
D308	8-719-000-26	DIODE US1060M		D908	8-719-300-71	DIODE SEL2210R	
D309	8-719-000-26	DIODE US1060M		D909	8-719-302-67	DIODE SEL2910W-C	
D310	8-719-000-26	DIODE US1060M		D910	8-719-303-79	DIODE SEL4414G	
D311	8-719-000-26	DIODE US1060M		D911	8-719-303-84	DIODE SEL4914D	
D312	8-719-000-26	DIODE US1060M		F601	△.1-532-203-00	(AEP, UK, E, WG)....FUSE, TIME-LAG 2A 250V	
D313	8-719-000-26	DIODE US1060M		F601	△.1-532-743-11	(US, CND)....FUSE, GLASS TUBE 2A 125V	
D314	8-719-000-26	DIODE US1060M		F602	△.1-532-203-00	(AEP, UK, E, WG)....FUSE, TIME-LAG 2A 250V	
D315	8-719-000-26	DIODE US1060M		F602	△.1-532-743-11	(US, CND)....FUSE, GLASS TUBE 2A 125V	
D501	8-719-000-26	DIODE US1060M		FLT801	1-519-445-21	INDICATOR TUBE, FLUORESCENT	
D502	8-719-000-26	DIODE US1060M		HRP1001-A	X-3391-160-1	HEAD ASSY, ROTARY	
D503	8-719-000-26	DIODE US1060M		(HE1001-A)			
D504	8-719-000-26	DIODE US1060M		HRP1001-B	X-3391-160-1	HEAD ASSY, ROTARY	
D505	8-719-000-26	DIODE US1060M		(HE1001-B)			
D506	8-719-000-26	DIODE US1060M		IC301	8-759-111-44	IC UPC4570C-1	
D507	8-719-000-26	DIODE US1060M		IC302	8-759-601-43	IC M4066BP	
D601	8-719-200-77	DIODE 10E2N		IC303	8-759-111-44	IC UPC4570C-1	
D602	8-719-200-77	DIODE 10E2N		IC304	8-759-601-43	IC M4066BP	
D603	8-719-200-77	DIODE 10E2N		IC305	8-752-032-60	IC CXA1198P	
D604	8-719-200-77	DIODE 10E2N		IC306	8-759-601-43	IC M4066BP	
D605	8-719-200-77	DIODE 10E2N		IC307	8-752-032-60	IC CXA1198P	
D606	8-719-200-77	DIODE 10E2N		IC308	8-759-601-10	IC M4011BP	
D607	8-719-200-77	DIODE 10E2N		IC309	8-759-240-51	IC TC4051BP	
D608	8-719-200-77	DIODE 10E2N		IC310	8-759-601-43	IC M4066BP	
D609	8-719-200-77	DIODE 10E2N		IC341	8-759-601-02	IC M5218P	
D610	8-719-200-77	DIODE 10E2N		IC391	8-759-601-02	IC M5218P	
D611	8-719-200-77	DIODE 10E2N		IC501	8-752-018-70	IC CX20187	
D612	8-719-000-26	DIODE US1060M		IC502	8-752-018-70	IC CX20187	
D613	8-719-933-33	DIODE HZS6A1L		IC503	8-759-601-02	IC M5218P	
D614	8-719-000-26	DIODE US1060M		IC504	8-759-601-43	IC M4066BP	
D615	8-719-000-26	DIODE US1060M		IC505	8-759-601-43	IC M4066BP	
D616	8-719-933-47	DIODE HZS7B2L		IC506	8-759-601-43	IC M4066BP	
D617	8-719-200-77	DIODE 10E2N		IC507	8-759-601-45	IC M4069UBP	
D618	8-719-200-77	DIODE 10E2N		IC701	8-759-939-76	IC MB88515B-233K	
D619	8-719-933-49	DIODE HZS7C1L		IC702	8-759-240-52	IC TC4052BP	
D701	8-719-000-26	DIODE US1060M		IC703	8-759-240-52	IC TC4052BP	
D702	8-719-000-26	DIODE US1060M		IC704	8-759-604-07	IC M50761-423P	
D703	8-719-000-26	DIODE US1060M		IC705	8-759-601-43	IC M4066BP	
D704	8-719-000-26	DIODE US1060M		IC801	8-759-603-79	IC M50940-400SP	
D705	8-719-200-77	DIODE 10E2N		IC802	8-759-600-02	IC M5218L	
D706	8-719-000-26	DIODE US1060M		J391	1-565-258-11	JACK, PIN 4P (LINE INPUT/OUTPUT)	
D707	8-719-000-26	DIODE US1060M		J392	1-507-796-21	JACK (PHONES)	
D708	8-719-000-26	DIODE US1060M		L101	1-410-780-11	INDUCTOR 27MMH	
D709	8-719-000-26	DIODE US1060M		L102	1-410-780-11	INDUCTOR 27MMH	
D710	8-719-200-77	DIODE 10E2N		L201	1-410-780-11	INDUCTOR 27MMH	
D711	8-719-000-26	DIODE US1060M		L202	1-410-780-11	INDUCTOR 27MMH	
D712	8-719-000-26	DIODE US1060M		LPF151	1-235-764-11	FILTER, LOW PASS	
D713	8-719-000-26	DIODE US1060M		LPF251	1-235-764-11	FILTER, LOW PASS	
D714	8-719-000-26	DIODE US1060M		M1001-A	X-3391-155-1	MOTOR ASSY (CAPSTAN)	
D715	8-719-000-26	DIODE US1060M		M1001-B	X-3391-155-1	MOTOR ASSY (CAPSTAN)	
D716	8-719-000-26	DIODE US1060M		M1002-A	X-3391-156-1	MOTOR ASSY (REEL)	
D717	8-719-000-26	DIODE US1060M		M1002-B	X-3391-156-1	MOTOR ASSY (REEL)	
D718	8-719-933-33	DIODE HZS6A1L		PM1001-A	1-454-440-11	PLUNGER	
D719	8-719-000-26	DIODE US1060M		PM1001-B	1-454-440-11	PLUNGER	
D720	8-719-000-26	DIODE US1060M					
D721	8-719-000-26	DIODE US1060M					
D801	8-719-000-26	DIODE US1060M					

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
Q101	8-729-107-77	TRANSISTOR 2SC3623		Q708	8-729-900-65	TRANSISTOR DTA144ES	
Q141	8-729-900-89	TRANSISTOR DTC144ES		Q709	8-729-801-83	TRANSISTOR 2SB1013	
Q151	8-729-900-80	TRANSISTOR DTC114ES		Q710	8-729-811-24	TRANSISTOR 2SD1012	
Q152	8-729-100-12	TRANSISTOR 2SC2001-L		Q711	8-729-801-93	TRANSISTOR 2SD1387	
Q201	8-729-107-77	TRANSISTOR 2SC3623		Q712	8-729-801-83	TRANSISTOR 2SB1013	
Q241	8-729-900-89	TRANSISTOR DTC144ES		Q713	8-729-801-83	TRANSISTOR 2SB1013	
Q251	8-729-900-80	TRANSISTOR DTC114ES		Q714	8-729-801-93	TRANSISTOR 2SD1387	
Q252	8-729-100-12	TRANSISTOR 2SC2001-L		Q715	8-729-801-93	TRANSISTOR 2SD1387	
Q301	8-729-107-77	TRANSISTOR 2SC3623		Q716	8-729-801-93	TRANSISTOR 2SD1387	
Q302	8-729-107-77	TRANSISTOR 2SC3623		Q717	8-729-900-80	TRANSISTOR DTC114ES	
Q303	8-729-107-77	TRANSISTOR 2SC3623		Q718	8-729-900-65	TRANSISTOR DTA144ES	
Q304	8-729-900-61	TRANSISTOR DTA114ES		Q719	8-729-801-83	TRANSISTOR 2SB1013	
Q305	8-729-900-61	TRANSISTOR DTA114ES		Q720	8-729-811-24	TRANSISTOR 2SD1012	
Q306	8-729-900-61	TRANSISTOR DTA114ES		Q721	8-729-900-65	TRANSISTOR DTA144ES	
Q307	8-729-900-61	TRANSISTOR DTA114ES		Q722	8-729-900-89	TRANSISTOR DTC144ES	
Q308	8-729-900-61	TRANSISTOR DTA114ES		Q723	8-729-900-80	TRANSISTOR DTC114ES	
Q309	8-729-900-61	TRANSISTOR DTA114ES		Q724	8-729-600-27	TRANSISTOR 2SC634SP	
Q310	8-729-900-65	TRANSISTOR DTA144ES		Q725	8-729-600-27	TRANSISTOR 2SC634SP	
Q311	8-729-900-89	TRANSISTOR DTC144ES		Q726	8-729-900-74	TRANSISTOR DTC143TS	
Q312	8-729-107-77	TRANSISTOR 2SC3623-L		Q727	8-729-900-74	TRANSISTOR DTC143TS	
Q313	8-729-900-65	TRANSISTOR DTA144ES		Q728	8-729-900-74	TRANSISTOR DTC143TS	
Q314	8-729-900-89	TRANSISTOR DTC144ES		Q729	8-729-900-61	TRANSISTOR DTA114ES	
Q315	8-729-900-65	TRANSISTOR DTA144ES		Q730	8-729-900-61	TRANSISTOR DTA114ES	
Q316	8-729-900-89	TRANSISTOR DTC144ES		Q731	8-729-900-61	TRANSISTOR DTA114ES	
Q317	8-729-177-42	TRANSISTOR 2SD774		Q732	8-729-900-61	TRANSISTOR DTA114ES	
Q318	8-729-900-61	TRANSISTOR DTA114ES		Q733	8-729-900-61	TRANSISTOR DTA114ES	
Q319	8-729-900-89	TRANSISTOR DTC144ES		Q734	8-729-900-61	TRANSISTOR DTA114ES	
Q320	8-729-900-89	TRANSISTOR DTC144ES		Q735	8-729-900-61	TRANSISTOR DTA114ES	
Q321	8-729-900-61	TRANSISTOR DTA114ES		Q736	8-729-900-61	TRANSISTOR DTA114ES	
Q322	8-729-177-42	TRANSISTOR 2SD774		Q737	8-729-900-80	TRANSISTOR DTC114ES	
Q323	8-729-900-80	TRANSISTOR DTC114ES		Q738	8-729-900-80	TRANSISTOR DTC114ES	
Q324	8-729-802-34	TRANSISTOR 2SD1388		Q740	8-729-900-65	TRANSISTOR DTA144ES	
Q325	8-729-802-34	TRANSISTOR 2SD1388		Q741	8-729-900-61	TRANSISTOR DTA114ES	
Q326	8-729-802-34	TRANSISTOR 2SD1388		Q742	8-729-900-65	TRANSISTOR DTA144ES	
Q327	8-729-802-34	TRANSISTOR 2SD1388		Q743	8-729-900-80	TRANSISTOR DTC114ES	
Q328	8-729-100-12	TRANSISTOR 2SC2001-L		Q744	8-729-600-27	TRANSISTOR 2SC634SP	
Q329	8-729-100-12	TRANSISTOR 2SC2001-L		Q745	8-729-900-61	TRANSISTOR DTA114ES	
Q330	8-729-100-12	TRANSISTOR 2SC2001-L		Q801	8-729-117-54	TRANSISTOR 2SA1175	
Q331	8-729-100-12	TRANSISTOR 2SC2001-L		Q802	8-729-900-80	TRANSISTOR DTC114ES	
Q332	8-729-900-80	TRANSISTOR DTC114ES		Q803	8-729-900-65	TRANSISTOR DTA144ES	
Q333	8-729-900-80	TRANSISTOR DTC114ES		Q1001-A	1-807-509-11	PHOTO SENSOR	
Q501	8-729-900-89	TRANSISTOR DTC144ES		Q1001-B	1-807-509-11	PHOTO SENSOR	
Q502	8-729-900-89	TRANSISTOR DTC144ES		Q1002-A	1-807-509-11	PHOTO SENSOR	
Q503	8-729-900-61	TRANSISTOR DTA114ES		Q1002-B	1-807-509-11	PHOTO SENSOR	
Q601	8-729-107-25	TRANSISTOR 2SD1585-L		Q1003-A	X-3391-161-1	SENSOR ASSY	
Q602	8-729-600-27	TRANSISTOR 2SC634SP		Q1003-B	X-3391-161-1	SENSOR ASSY	
Q603	8-729-600-27	TRANSISTOR 2SC634SP					
Q604	8-729-900-80	TRANSISTOR DTC114ES					
Q605	8-729-117-54	TRANSISTOR 2SA1175					
Q606	8-729-117-54	TRANSISTOR 2SA1175					
Q607	8-729-111-67	TRANSISTOR 2SB1094-L					
Q608	8-729-209-15	TRANSISTOR 2SD2012					
Q609	8-729-600-27	TRANSISTOR 2SC634SP					
Q610	8-729-117-54	TRANSISTOR 2SA1175					
Q611	8-729-117-54	TRANSISTOR 2SA1175					
Q612	8-729-209-60	TRANSISTOR 2SB1375					
Q613	8-729-117-54	TRANSISTOR 2SA1175					
Q614	8-729-364-72	TRANSISTOR 2SB647					
Q701	8-729-801-93	TRANSISTOR 2SD1387					
Q702	8-729-801-83	TRANSISTOR 2SB1013					
Q703	8-729-801-83	TRANSISTOR 2SB1013					
Q704	8-729-801-93	TRANSISTOR 2SD1387					
Q705	8-729-801-93	TRANSISTOR 2SD1387					
Q706	8-729-801-93	TRANSISTOR 2SD1387					
Q707	8-729-900-80	TRANSISTOR DTC114ES					

RESISTOR

R101	1-259-459-11	CARBON	20K	5%	1/6W
R102	1-259-484-11	CARBON	220K	5%	1/6W
R103	1-259-475-11	CARBON	91K	5%	1/6W
R104	1-249-429-11	CARBON	10K	5%	1/4W
R105	1-259-400-11	CARBON	68	5%	1/6W
R106	1-259-479-11	CARBON	130K	5%	1/6W
R107	1-259-445-11	CARBON	5.1K	5%	1/6W
R108	1-259-449-11	CARBON	7.5K	5%	1/6W
R109	1-249-421-11	CARBON	2.2K	5%	1/4W
R111	1-259-456-11	CARBON	15K	5%	1/6W
R112	1-259-400-11	CARBON	68	5%	1/6W
R113	1-259-479-11	CARBON	130K	5%	1/6W
R114	1-259-445-11	CARBON	5.1K	5%	1/6W
R115	1-259-449-11	CARBON	7.5K	5%	1/6W
R116	1-249-421-11	CARBON	2.2K	5%	1/4W
R121	1-249-428-11	CARBON	8.2K	5%	1/4W
R122	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No	Part No.	Description	Remark			Ref.No	Part No.	Description	Remark		
R123	1-249-441-11	CARBON	100K	5%	1/4W	R241	1-249-437-11	CARBON	47K	5%	1/4W
R124	1-249-429-11	CARBON	10K	5%	1/4W	R242	1-249-434-11	CARBON	27K	5%	1/4W
R125	1-249-421-11	CARBON	2.2K	5%	1/4W	R243	1-249-429-11	CARBON	10K	5%	1/4W
R131	1-249-428-11	CARBON	8.2K	5%	1/4W	R244	1-249-397-11	CARBON	22	5%	1/4W
R132	1-249-425-11	CARBON	4.7K	5%	1/4W	R245	1-249-417-11	CARBON	1K	5%	1/4W
R133	1-249-441-11	CARBON	100K	5%	1/4W	R251	1-249-415-11	CARBON	680	5%	1/4W
R134	1-249-429-11	CARBON	10K	5%	1/4W	R252	1-249-427-11	CARBON	6.8K	5%	1/4W
R135	1-249-421-11	CARBON	2.2K	5%	1/4W	R253	1-247-840-00	CARBON	2.4K	5%	1/4W
R141	1-249-437-11	CARBON	47K	5%	1/4W	R254	1-247-846-11	CARBON	4.3K	5%	1/4W
R142	1-249-434-11	CARBON	27K	5%	1/4W	R255	1-247-822-11	CARBON	430	5%	1/4W
R143	1-249-429-11	CARBON	10K	5%	1/4W	R256	1-249-415-11	CARBON	680	5%	1/4W
R144	1-249-397-11	CARBON	22	5%	1/4W	R257	1-249-427-11	CARBON	6.8K	5%	1/4W
R145	1-249-417-11	CARBON	1K	5%	1/4W	R258	1-247-840-00	CARBON	2.4K	5%	1/4W
R151	1-249-415-11	CARBON	680	5%	1/4W	R259	1-247-846-11	CARBON	4.3K	5%	1/4W
R152	1-249-427-11	CARBON	6.8K	5%	1/4W	R260	1-247-822-11	CARBON	430	5%	1/4W
R153	1-247-840-00	CARBON	2.4K	5%	1/4W	R261	1-249-417-11	CARBON	1K	5%	1/4W
R154	1-247-846-11	CARBON	4.3K	5%	1/4W	R262	1-249-441-11	CARBON	100K	5%	1/4W
R155	1-247-822-11	CARBON	430	5%	1/4W	R263	1-249-433-11	CARBON	22K	5%	1/4W
R156	1-249-415-11	CARBON	680	5%	1/4W	R264	1-249-440-11	CARBON	82K	5%	1/4W
R157	1-249-427-11	CARBON	6.8K	5%	1/4W	R265	1-249-423-11	CARBON	3.3K	5%	1/4W
R158	1-247-840-00	CARBON	2.4K	5%	1/4W	R266	1-249-441-11	CARBON	100K	5%	1/4W
R159	1-247-846-11	CARBON	4.3K	5%	1/4W	R267	1-249-428-11	CARBON	8.2K	5%	1/4W
R160	1-247-822-11	CARBON	430	5%	1/4W	R268	1-247-870-11	CARBON	43K	5%	1/4W
R161	1-249-417-11	CARBON	1K	5%	1/4W	R269	1-249-421-11	CARBON	2.2K	5%	1/4W
R162	1-249-441-11	CARBON	100K	5%	1/4W	R270	1-249-435-11	CARBON	33K	5%	1/4W
R163	1-249-433-11	CARBON	22K	5%	1/4W	R271	1-249-421-11	CARBON	2.2K	5%	1/4W
R164	1-249-440-11	CARBON	82K	5%	1/4W	R291	1-249-433-11	CARBON	22K	5%	1/4W
R165	1-249-423-11	CARBON	3.3K	5%	1/4W	R292	1-249-421-11	CARBON	2.2K	5%	1/4W
R166	1-249-441-11	CARBON	100K	5%	1/4W	R293	1-247-852-00	CARBON	7.5K	5%	1/4W
R167	1-249-428-11	CARBON	8.2K	5%	1/4W	R294	1-249-907-11	CARBON	220	1%	1/4W
R168	1-247-870-11	CARBON	43K	5%	1/4W	R295	1-259-428-11	CARBON	1K	5%	1/6W
R169	1-249-421-11	CARBON	2.2K	5%	1/4W	R296	1-259-464-11	CARBON	33K	5%	1/6W
R170	1-249-435-11	CARBON	33K	5%	1/4W	R301	1-249-409-11	CARBON	220	5%	1/4W
R171	1-249-421-11	CARBON	2.2K	5%	1/4W	R302	1-249-409-11	CARBON	220	5%	1/4W
R191	1-249-433-11	CARBON	22K	5%	1/4W	R303	1-249-437-11	CARBON	47K	5%	1/4W
R192	1-249-421-11	CARBON	2.2K	5%	1/4W	R304	1-249-409-11	CARBON	220	5%	1/4W
R193	1-247-852-11	CARBON	7.5K	5%	1/4W	R305	1-249-409-11	CARBON	220	5%	1/4W
R194	1-249-907-11	CARBON	220	1%	1/4W	R306	1-249-437-11	CARBON	47K	5%	1/4W
R195	1-259-428-11	CARBON	1K	5%	1/6W	R307	1-247-864-11	CARBON	24K	5%	1/4W
R196	1-259-464-11	CARBON	33K	5%	1/6W	R308	1-249-437-11	CARBON	47K	5%	1/4W
R201	1-259-459-11	CARBON	20K	5%	1/6W	R309	1-247-864-11	CARBON	24K	5%	1/4W
R202	1-259-484-11	CARBON	220K	5%	1/6W	R310	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-259-475-11	CARBON	91K	5%	1/6W	R311	1-249-437-11	CARBON	47K	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W	R312	1-249-437-11	CARBON	47K	5%	1/4W
R205	1-259-400-11	CARBON	68	5%	1/6W	R313	1-249-429-11	CARBON	10K	5%	1/4W
R206	1-259-479-11	CARBON	130K	5%	1/6W	R314	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-259-445-11	CARBON	5.1K	5%	1/6W	R315	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-259-449-11	CARBON	7.5K	5%	1/6W	R316	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-421-11	CARBON	2.2K	5%	1/4W	R317	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-259-456-11	CARBON	15K	5%	1/6W	R318	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-259-400-11	CARBON	68	5%	1/6W	R319	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-259-479-11	CARBON	130K	5%	1/6W	R320	1-249-437-11	CARBON	47K	5%	1/4W
R214	1-259-445-11	CARBON	5.1K	5%	1/6W	R321	1-249-429-11	CARBON	10K	5%	1/4W
R215	1-259-449-11	CARBON	7.5K	5%	1/6W	R322	1-249-437-11	CARBON	47K	5%	1/4W
R216	1-249-421-11	CARBON	2.2K	5%	1/4W	R323	1-249-417-11	CARBON	1K	5%	1/4W
R221	1-249-428-11	CARBON	8.2K	5%	1/4W	R324	1-249-427-11	CARBON	6.8K	5%	1/4W
R222	1-249-425-11	CARBON	4.7K	5%	1/4W	R325	1-247-840-00	CARBON	2.4K	5%	1/4W
R223	1-249-441-11	CARBON	100K	5%	1/4W	R326	1-249-415-11	CARBON	680	5%	1/4W
R224	1-249-429-11	CARBON	10K	5%	1/4W	R327	1-249-415-11	CARBON	680	5%	1/4W
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	R328	1-247-840-00	CARBON	2.4K	5%	1/4W
R231	1-249-428-11	CARBON	8.2K	5%	1/4W	R329	1-249-427-11	CARBON	6.8K	5%	1/4W
R232	1-249-425-11	CARBON	4.7K	5%	1/4W	R330	1-249-423-11	CARBON	3.3K	5%	1/4W
R233	1-249-441-11	CARBON	100K	5%	1/4W	R331	1-249-425-11	CARBON	4.7K	5%	1/4W
R234	1-249-429-11	CARBON	10K	5%	1/4W	R332	1-249-401-11	CARBON	47	5%	1/4W
R235	1-249-421-11	CARBON	2.2K	5%	1/4W	R333	1-249-423-11	CARBON	3.3K	5%	1/4W

Ref.No	Part No.	Description	Remark			Ref.No	Part No.	Description	Remark		
R334	1-249-425-11	CARBON	4.7K	5%	1/4W	R452	1-249-434-11	CARBON	27K	5%	1/4W
R335	1-249-401-11	CARBON	47	5%	1/4W	R453	1-247-876-11	CARBON	75K	5%	1/4W
R336	1-249-425-11	CARBON	4.7K	5%	1/4W	R454	1-249-436-11	CARBON	39K	5%	1/4W
R337	1-249-425-11	CARBON	4.7K	5%	1/4W	R455	1-247-885-00	CARBON	180K	5%	1/4W
R338	1-249-423-11	CARBON	3.3K	5%	1/4W	R456	1-247-876-11	CARBON	75K	5%	1/4W
R339	1-249-417-11	CARBON	1K	5%	1/4W	R457	1-247-864-11	CARBON	24K	5%	1/4W
R340	1-249-438-11	CARBON	56K	5%	1/4W	R458	1-249-430-11	CARBON	12K	5%	1/4W
R341	1-249-438-11	CARBON	56K	5%	1/4W	R459	1-247-878-00	CARBON	91K	5%	1/4W
R342	1-249-438-11	CARBON	56K	5%	1/4W	R460	1-249-436-11	CARBON	39K	5%	1/4W
R343	1-249-438-11	CARBON	56K	5%	1/4W	R461	1-247-883-00	CARBON	150K	5%	1/4W
R344	1-249-387-11	CARBON	3.3	5%	1/4W	R501	1-249-437-11	CARBON	47K	5%	1/4W
R345	1-249-387-11	CARBON	3.3	5%	1/4W	R502	1-249-437-11	CARBON	47K	5%	1/4W
R346	1-249-429-11	CARBON	10K	5%	1/4W	R503	1-249-429-11	CARBON	10K	5%	1/4W
R347	1-249-429-11	CARBON	10K	5%	1/4W	R504	1-215-469-00	METAL	100K	1%	1/6W
R348	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-249-405-11	CARBON	100	5%	1/4W
R349	1-249-429-11	CARBON	10K	5%	1/4W	R506	1-249-437-11	CARBON	47K	5%	1/4W
R350	1-249-381-11	CARBON	1	5%	1/4W	R507	1-249-437-11	CARBON	47K	5%	1/4W
R351	1-249-381-11	CARBON	1	5%	1/4W	R508	1-249-437-11	CARBON	47K	5%	1/4W
R352	△ 1-212-857-00	FUSIBLE	10	5%	1/4W	R509	1-249-429-11	CARBON	10K	5%	1/4W
R353	△ 1-212-857-00	FUSIBLE	10	5%	1/4W	R510	1-215-469-00	METAL	100K	1%	1/6W
R401	1-247-878-00	CARBON	91K	5%	1/4W	R511	1-249-405-11	CARBON	100	5%	1/4W
R402	1-249-439-11	CARBON	68K	5%	1/4W	R512	1-249-437-11	CARBON	47K	5%	1/4W
R403	1-247-881-00	CARBON	120K	5%	1/4W	R513	1-249-437-11	CARBON	47K	5%	1/4W
R404	1-247-874-11	CARBON	62K	5%	1/4W	R514	1-249-437-11	CARBON	47K	5%	1/4W
R405	1-249-437-11	CARBON	47K	5%	1/4W	R515	1-249-437-11	CARBON	47K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W	R516	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-247-891-00	CARBON	330K	5%	1/4W	R517	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-438-11	CARBON	56K	5%	1/4W	R518	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-247-880-11	CARBON	110K	5%	1/4W	R519	1-249-437-11	CARBON	47K	5%	1/4W
R410	1-247-881-00	CARBON	120K	5%	1/4W	R601	1-247-717-11	CARBON	2.2K	5%	1/4W
R411	1-247-874-11	CARBON	62K	5%	1/4W	R602	1-247-717-11	CARBON	2.2K	5%	1/4W
R412	1-247-876-11	CARBON	75K	5%	1/4W	R603	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-436-11	CARBON	39K	5%	1/4W	R604	1-249-421-11	CARBON	2.2K	5%	1/4W
R414	1-249-437-11	CARBON	47K	5%	1/4W	R605	1-249-405-11	CARBON	100	5%	1/4W
R415	1-249-441-11	CARBON	100K	5%	1/4W	R606	1-247-717-11	CARBON	2.2K	5%	1/4W
R416	1-249-440-11	CARBON	82K	5%	1/4W	R607	1-247-717-11	CARBON	2.2K	5%	1/4W
R417	1-249-439-11	CARBON	68K	5%	1/4W	R608	1-247-717-11	CARBON	2.2K	5%	1/4W
R418	1-247-878-00	CARBON	91K	5%	1/4W	R609	1-247-704-11	CARBON	220	5%	1/4W
R425	1-427-878-00	CARBON	91K	5%	1/4W	R610	1-247-714-11	CARBON	1.2K	5%	1/4W
R426	1-249-439-11	CARBON	68K	5%	1/4W	R611	1-247-714-11	CARBON	1.2K	5%	1/4W
R427	1-247-881-00	CARBON	120K	5%	1/4W	R612	1-247-713-11	CARBON	1K	5%	1/4W
R428	1-247-874-11	CARBON	62K	5%	1/4W	R613	1-249-421-11	CARBON	2.2K	5%	1/4W
R429	1-249-437-11	CARBON	47K	5%	1/4W	R614	1-249-425-11	CARBON	4.7K	5%	1/4W
R430	1-249-437-11	CARBON	47K	5%	1/4W	R615	1-249-432-11	CARBON	18K	5%	1/4W
R431	1-247-891-00	CARBON	330K	5%	1/4W	R616	1-249-421-11	CARBON	2.2K	5%	1/4W
R432	1-249-438-11	CARBON	56K	5%	1/4W	R617	1-249-421-11	CARBON	2.2K	5%	1/4W
R433	1-247-880-11	CARBON	110K	5%	1/4W	R618	1-247-838-00	CARBON	2K	5%	1/4W
R434	1-247-881-00	CARBON	120K	5%	1/4W	R619	1-249-429-11	CARBON	10K	5%	1/4W
R435	1-247-874-11	CARBON	62K	5%	1/4W	R620	1-249-415-11	CARBON	680	5%	1/4W
R436	1-247-876-11	CARBON	75K	5%	1/4W	R701	1-249-485-11	CARBON	8.2	5%	1/2W
R437	1-249-436-11	CARBON	39K	5%	1/4W	R702	1-249-414-11	CARBON	560	5%	1/4W
R438	1-249-437-11	CARBON	47K	5%	1/4W	R703	1-249-419-11	CARBON	1.5K	5%	1/4W
R439	1-249-441-11	CARBON	100K	5%	1/4W	R704	1-249-417-11	CARBON	1K	5%	1/4W
R440	1-249-440-11	CARBON	82K	5%	1/4W	R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R441	1-249-439-11	CARBON	68K	5%	1/4W	R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R442	1-247-878-00	CARBON	91K	5%	1/4W	R707	1-249-437-11	CARBON	47K	5%	1/4W
R443	1-247-883-00	CARBON	150K	5%	1/4W	R708	1-249-437-11	CARBON	47K	5%	1/4W
R444	1-247-872-11	CARBON	51K	5%	1/4W	R709	1-249-425-11	CARBON	4.7K	5%	1/4W
R445	1-247-872-11	CARBON	51K	5%	1/4W	R710	1-249-417-11	CARBON	1K	5%	1/4W
R446	1-249-431-11	CARBON	15K	5%	1/4W	R711	1-249-417-11	CARBON	1K	5%	1/4W
R447	1-247-872-11	CARBON	51K	5%	1/4W	R712	1-249-431-11	CARBON	15K	5%	1/4W
R448	1-249-433-11	CARBON	22K	5%	1/4W	R713	1-249-431-11	CARBON	15K	5%	1/4W
R449	1-247-881-00	CARBON	120K	5%	1/4W	R714	1-249-421-11	CARBON	2.2K	5%	1/4W
R450	1-249-438-11	CARBON	56K	5%	1/4W	R715	1-249-441-11	CARBON	100K	5%	1/4W
R451	1-247-868-11	CARBON	36K	5%	1/4W	R716	1-249-433-11	CARBON	22K	5%	1/4W

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref.No	Part No.	Description	Remark			Ref.No	Part No.	Description	Remark		
R717	1-249-417-11	CARBON	1K	5%	1/4W	R782	1-249-429-11	CARBON	10K	5%	1/4W
R718	1-249-423-11	CARBON	3.3K	5%	1/4W	R783	1-249-426-11	CARBON	5.6K	5%	1/4W
R719	1-249-437-11	CARBON	47K	5%	1/4W	R784	1-249-433-11	CARBON	22K	5%	1/4W
R720	1-249-485-11	CARBON	8.2	5%	1/2W	R785	1-249-428-11	CARBON	8.2K	5%	1/4W
R721	1-249-414-11	CARBON	560	5%	1/4W	R786	1-249-427-11	CARBON	6.8K	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W	R787	1-249-422-11	CARBON	2.7K	5%	1/4W
R723	1-249-417-11	CARBON	1K	5%	1/4W	R788	1-247-903-00	CARBON	1M	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W	R789	1-249-422-11	CARBON	2.7K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W	R790	1-249-432-11	CARBON	18K	5%	1/4W
R726	1-249-437-11	CARBON	47K	5%	1/4W	R791	1-249-430-11	CARBON	12K	5%	1/4W
R727	1-249-437-11	CARBON	47K	5%	1/4W	R792	1-249-432-11	CARBON	18K	5%	1/4W
R728	1-249-425-11	CARBON	4.7K	5%	1/4W	R793	1-249-417-11	CARBON	1K	5%	1/4W
R729	1-249-417-11	CARBON	1K	5%	1/4W	R794	1-249-435-11	CARBON	33K	5%	1/4W
R730	1-249-417-11	CARBON	1K	5%	1/4W	R795	1-249-437-11	CARBON	47K	5%	1/4W
R731	1-249-431-11	CARBON	15K	5%	1/4W	R801	1-249-435-11	CARBON	33K	5%	1/4W
R732	1-249-431-11	CARBON	15K	5%	1/4W	R802	1-249-435-11	CARBON	33K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W	R803	1-249-435-11	CARBON	33K	5%	1/4W
R734	1-249-421-11	CARBON	2.2K	5%	1/4W	R804	1-249-435-11	CARBON	33K	5%	1/4W
R735	1-249-441-11	CARBON	100K	5%	1/4W	R805	1-249-429-11	CARBON	10K	5%	1/4W
R736	1-249-433-11	CARBON	22K	5%	1/4W	R806	1-249-429-11	CARBON	10K	5%	1/4W
R737	1-249-423-11	CARBON	3.3K	5%	1/4W	R807	1-249-429-11	CARBON	10K	5%	1/4W
R738	1-249-437-11	CARBON	47K	5%	1/4W	R808	1-249-437-11	CARBON	47K	5%	1/4W
R739	1-249-435-11	CARBON	33K	5%	1/4W	R809	1-249-437-11	CARBON	47K	5%	1/4W
R740	1-249-410-11	CARBON	270	5%	1/4W	R810	1-249-437-11	CARBON	47K	5%	1/4W
R741	1-249-417-11	CARBON	1K	5%	1/4W	R811	1-249-430-11	CARBON	12K	5%	1/4W
R742	1-249-410-11	CARBON	270	5%	1/4W	R812	1-247-903-00	CARBON	1M	5%	1/4W
R743	1-249-417-11	CARBON	1K	5%	1/4W	R813	1-249-437-11	CARBON	47K	5%	1/4W
R744	1-249-425-11	CARBON	4.7K	5%	1/4W	R814	1-249-413-11	CARBON	470	5%	1/4W
R745	1-249-405-11	CARBON	100	5%	1/4W	R815	1-249-441-11	CARBON	100K	5%	1/4W
R746	1-249-393-11	CARBON	10	5%	1/4W	R816	1-249-429-11	CARBON	10K	5%	1/4W
R747	1-249-417-11	CARBON	1K	5%	1/4W	R817	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-435-11	CARBON	33K	5%	1/4W	R818	1-249-417-11	CARBON	1K	5%	1/4W
R749	1-249-437-11	CARBON	47K	5%	1/4W	R819	1-249-428-11	CARBON	8.2K	5%	1/4W
R750	1-249-437-11	CARBON	47K	5%	1/4W	R820	1-249-423-11	CARBON	3.3K	5%	1/4W
R751	1-249-437-11	CARBON	47K	5%	1/4W	R821	1-249-441-11	CARBON	100K	5%	1/4W
R752	1-249-425-11	CARBON	4.7K	5%	1/4W	R822	1-249-441-11	CARBON	100K	5%	1/4W
R753	1-249-437-11	CARBON	47K	5%	1/4W	R823	1-249-423-11	CARBON	3.3K	5%	1/4W
R754	1-249-437-11	CARBON	47K	5%	1/4W	R824	1-249-441-11	CARBON	100K	5%	1/4W
R755	1-247-895-00	CARBON	470K	5%	1/4W	R825	1-249-441-11	CARBON	100K	5%	1/4W
R756	1-247-895-00	CARBON	470K	5%	1/4W	R826	1-249-417-11	CARBON	1K	5%	1/4W
R757	1-247-895-00	CARBON	470K	5%	1/4W	R901	1-249-406-11	CARBON	120	5%	1/4W
R758	1-247-895-00	CARBON	470K	5%	1/4W	R902	1-249-410-11	CARBON	270	5%	1/4W
R759	1-249-437-11	CARBON	47K	5%	1/4W	R903	1-249-406-11	CARBON	120	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W	R904	1-249-410-11	CARBON	270	5%	1/4W
R761	1-249-437-11	CARBON	47K	5%	1/4W	R905	1-249-399-11	CARBON	33	5%	1/4W
R762	1-249-437-11	CARBON	47K	5%	1/4W	R906	1-249-406-11	CARBON	120	5%	1/4W
R763	1-249-430-11	CARBON	12K	5%	1/4W	R907	1-249-410-11	CARBON	270	5%	1/4W
R764	1-249-430-11	CARBON	12K	5%	1/4W	R908	1-249-406-11	CARBON	120	5%	1/4W
R765	1-249-430-11	CARBON	12K	5%	1/4W	R909	1-249-410-11	CARBON	270	5%	1/4W
R766	1-249-431-11	CARBON	15K	5%	1/4W	R910	1-249-399-11	CARBON	33	5%	1/4W
R767	1-249-430-11	CARBON	12K	5%	1/4W	R911	1-249-408-11	CARBON	180	5%	1/4W
R768	1-249-431-11	CARBON	15K	5%	1/4W	R912	1-249-408-11	CARBON	180	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W	R913	1-249-408-11	CARBON	180	5%	1/4W
R770	1-249-430-11	CARBON	12K	5%	1/4W	R914	1-249-406-11	CARBON	120	5%	1/4W
R771	1-249-425-11	CARBON	4.7K	5%	1/4W	R915	1-249-399-11	CARBON	33	5%	1/4W
R772	1-249-431-11	CARBON	15K	5%	1/4W	R916	1-249-433-11	CARBON	22K	5%	1/4W
R773	1-249-431-11	CARBON	15K	5%	1/4W	R917	1-249-429-11	CARBON	10K	5%	1/4W
R774	1-249-429-11	CARBON	10K	5%	1/4W	R918	1-249-431-11	CARBON	15K	5%	1/4W
R775	1-249-417-11	CARBON	1K	5%	1/4W	R919	1-249-433-11	CARBON	22K	5%	1/4W
R776	1-249-417-11	CARBON	1K	5%	1/4W	R920	1-249-429-11	CARBON	10K	5%	1/4W
R777	1-249-431-11	CARBON	15K	5%	1/4W	R921	1-249-426-11	CARBON	5.6K	5%	1/4W
R778	1-249-433-11	CARBON	22K	5%	1/4W	R922	1-249-433-11	CARBON	22K	5%	1/4W
R779	1-249-429-11	CARBON	10K	5%	1/4W	R923	1-249-429-11	CARBON	10K	5%	1/4W
R780	1-249-426-11	CARBON	5.6K	5%	1/4W	R924	1-249-426-11	CARBON	5.6K	5%	1/4W
R781	1-249-433-11	CARBON	22K	5%	1/4W	R925	1-249-433-11	CARBON	22K	5%	1/4W

Ref.No	Part No.	Description	Remark
R926	1-249-429-11	CARBON 10K 5% 1/4W	
R927	1-249-426-11	CARBON 5.6K 5% 1/4W	
R928	1-249-433-11	CARBON 22K 5% 1/4W	
R929	1-249-429-11	CARBON 10K 5% 1/4W	
R930	1-249-426-11	CARBON 5.6K 5% 1/4W	
R931	1-249-433-11	CARBON 22K 5% 1/4W	
R932	1-249-428-11	CARBON 8.2K 5% 1/4W	
R933	1-249-424-11	CARBON 3.9K 5% 1/4W	
R934	1-249-422-11	CARBON 2.7K 5% 1/4W	
R935	1-249-424-11	CARBON 3.9K 5% 1/4W	
R936	1-249-422-11	CARBON 2.7K 5% 1/4W	
RV101	1-228-994-00	RES, ADJ, CARBON 10K	
RV111	1-228-994-00	RES, ADJ, CARBON 10K	
RV121	1-228-995-00	RES, ADJ, CARBON 22K	
RV131	1-228-995-00	RES, ADJ, CARBON 22K	
RV201	1-228-994-00	RES, ADJ, CARBON 10K	
RV211	1-228-994-00	RES, ADJ, CARBON 10K	
RV221	1-228-995-00	RES, ADJ, CARBON 22K	
RV231	1-228-995-00	RES, ADJ, CARBON 22K	
RV301	1-228-994-00	RES, ADJ, CARBON 10K	
RV302	1-228-994-00	RES, ADJ, CARBON 10K	
RV391	1-238-082-11	RES, VAR, CARBON 20K/20K (REC LEVEL)	
RV392	1-238-084-11	RES, VAR, CARBON 50K/50K (BALANCE)	
RV393	1-238-083-11	RES, VAR, CARBON 20K/20K (DUBBING LEVEL)	
RV394	1-230-313-00	RES, VAR, CARBON 20K/20K (PHONES LEVEL)	
RV701	1-228-995-00	RES, ADJ, CARBON 22K	
RV702	1-228-995-00	RES, ADJ, CARBON 22K	
RV703	1-228-995-00	RES, ADJ, CARBON 22K	
RV704	1-228-995-00	RES, ADJ, CARBON 22K	
RV705	1-228-995-00	RES, ADJ, CARBON 22K	
RV706	1-228-995-00	RES, ADJ, CARBON 22K	
RY301	1-515-683-11	RELAY	
RY302	1-515-683-11	RELAY	
S501	1-571-451-11	SWITCH, SLIDE (DOLBY NR (DECK A))	
S502	1-571-451-11	SWITCH, SLIDE (DOLBY NR (DECK B))	
S601	1-553-336-21	SWITCH, PUSH (POWER)	
S901	1-571-451-11	SWITCH, SLIDE (TIMER)	
S902	1-571-451-11	SWITCH, SLIDE (DIRECTION MODE)	
S903	1-554-303-21	SWITCH, KEY BOARD (● REC (DECK A))	
S904	1-554-303-21	SWITCH, KEY BOARD (▶▶ (DECK A))	
S905	1-554-303-21	SWITCH, KEY BOARD (◀◀ (DECK A))	
S906	1-554-303-21	SWITCH, KEY BOARD (■ (DECK A))	
S907	1-554-303-21	SWITCH, KEY BOARD (● REC MUTE (DECK A))	
S908	1-554-303-21	SWITCH, KEY BOARD (II (DECK A))	
S909	1-554-303-21	SWITCH, KEY BOARD (◁ (DECK A))	
S910	1-554-303-21	SWITCH, KEY BOARD (▷ (DECK A))	
S911	1-554-303-21	SWITCH, KEY BOARD (● REC (DECK B))	
S912	1-554-303-21	SWITCH, KEY BOARD (▶▶ (DECK B))	
S913	1-554-303-21	SWITCH, KEY BOARD (◀◀ (DECK B))	
S914	1-554-303-21	SWITCH, KEY BOARD (■ (DECK B))	
S915	1-554-303-21	SWITCH, KEY BOARD (● REC MUTE (DECK B))	
S916	1-554-303-21	SWITCH, KEY BOARD (II (DECK B))	
S917	1-554-303-21	SWITCH, KEY BOARD (◁ (DECK B))	
S918	1-554-303-21	SWITCH, KEY BOARD (▷ (DECK B))	
S919	1-554-303-21	SWITCH, KEY BOARD (A+B REC)	
S920	1-554-303-21	SWITCH, KEY BOARD (A) TO PAUSE	
S921	1-554-303-21	SWITCH, KEY BOARD (NORMAL SPEED)	
S922	1-554-303-21	SWITCH, KEY BOARD (HIGH SPEED)	
S923	1-554-088-00	SWITCH, KEY BOARD (AMS/BLANK SKIP)	
S924	1-554-303-21	SWITCH, KEY BOARD (COUNTER A/B)	
S925	1-554-303-21	SWITCH, KEY BOARD (COUNTER MEMORY)	
S926	1-554-303-21	SWITCH, KEY BOARD (COUNTER RESET)	
S927	1-570-307-11	(E)....SWITCH, VOLTAGE CHANGE	

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



Ref.No	Part No.	Description	Remark
S1001-A	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1001-B	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1002-A	1-570-723-11	SWITCH, PUSH (1 KEY)	
S1002-B	1-570-723-11	SWITCH, PUSH (1 KEY)	
S1003-A	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1003-B	1-570-720-11	SWITCH, PUSH (1 KEY)	
S1004-A	1-570-721-11	SWITCH, LEAF	
S1004-B	1-570-721-11	SWITCH, LEAF	
S1005-A	1-570-721-11	SWITCH, LEAF	
S1005-B	1-570-721-11	SWITCH, LEAF	
SPK151	1-235-186-00	ENCAPSULATED COMPONENT	
SPK152	1-235-186-00	ENCAPSULATED COMPONENT	
SPK251	1-235-186-00	ENCAPSULATED COMPONENT	
SPK252	1-235-186-00	ENCAPSULATED COMPONENT	
T301	1-464-573-11	OSCILLATION UNIT, BIAS	
T302	1-433-320-11	TRANSFORMER, BIAS OSCILLATION	
T303	1-433-320-11	TRANSFORMER, BIAS OSCILLATION	
T1001	1-449-213-11	(US, CND)....TRANSFORMER, POWER	
T1001	1-449-214-11	(AEP, UK, WG)....TRANSFORMER, POWER	
T1001	1-449-377-11	(E)....TRANSFORMER, POWER	
X701	1-567-771-11	VIBRATOR, CERAMIC (6MHz)	
X702	1-527-532-00	OSCILLATOR, CERAMIC (400KHz)	
X801	1-567-772-11	VIBRATOR, CERAMIC (4MHz)	

ACCESSORY & PACKING MATERIAL

Part No.	Description	Remark
1-558-233-11	CORD (WITH CONNECTOR) (SIRCS) 4P	
1-558-543-11	CORD, CONNECTION	
3-703-450-01	(US)INSTRUCTION	
3-769-895-11	(AEP, UK, E)....MANUAL, INSTRUCTION	
3-769-895-21	(US, CND)....MANUAL, INSTRUCTION	
3-769-895-31	(CND)MANUAL, INSTRUCTION	
3-769-895-41	(AEP)....MANUAL, INSTRUCTION	
*3-332-555-01	CUSHION	
*3-340-124-11	INDIVIDUAL CARTON	
*3-704-346-01	SHEET (STANDARD), PROTECTION	

TROUBLESHOOTING GUIDE

FUNCTION BUTTONS AND TAPE TRANSPORT PROBLEMS		
Symptom	Cause	Remedy
Function buttons do not activate.	Cassette holder is not fully closed.	Close the holder completely.
Playback or recording begins just as the power is turned on.	The TIMER switch is not set to OFF.	Set the TIMER switch to OFF.
● button does not activate.	No cassette in the holder.	Insert a cassette.
	Tab has been removed from the cassette.	Cover the hole with plastic tape.
Automatic shut-off mechanism activates before the tape comes to its end.	Tape is slack.	Take up the tape slack.
	Cassette shell is deformed.	Use another cassette.
	The MEMORY function is activated.	Press the MEMORY button to deactivate the function.
	The inside of the cassette holder is illuminated by strong light.	Remove the light source.
Excessively loud tape transport noise when rewinding or fast-forwarding	This depends on the cassette used and is not a problem.	—
The cassette holder does not open.	▲ button was pressed immediately after the ◀, ▶ or ■ button was pressed.	Turn the power off, and then press the button.

RECORDING AND PLAYBACK PROBLEMS		
Symptom	Cause	Remedy
Quick reverse function does not operate.	DIRECTION MODE selector is set to  .	Set the selector to  .
Recording or playback cannot be made or there is a decrease in sound level.	Record/playback and erase heads are either dirty or magnetized.	Clean or demagnetize the heads.
	Improper connection	Make connections properly.
	Improper setting of the amplifier controls	Set the amplifier controls to the appropriate positions.
Excessive wow, flutter or dropout	Head, capstan or pinch roller is dirty.	Clean in accordance with instructions.
Incomplete erasure	Erase head is dirty.	Clean the erase head.
Increased noise or poor reproduction in high frequencies	Head is magnetized.	Demagnetize the head.
Unbalanced tone in high frequencies	Improper setting of the DOLBY NR switch.	During playback, set the switch to the same position used in recording.
	The unit is placed near a television set.	Move the deck away from the television set.
The desired selection cannot be located even if you activate the AMS.	• There is noise in the space between selections.	—
	• The space is less than 4 seconds long.	Press ○ to insert a longer blank space.
	• The ◀◀ or ▶▶ button is pressed immediately before or after the beginning of the following selection.	—
Playback or fast-winding may begin in the middle of the selection when AMS or blank skip is activated.	• The following will be treated as blanks: — a long pause in the music — a passage of low frequencies or very low volume — gradual increase or decrease of volume	—

NOISE		
Symptom	Cause	Remedy
Hum noise	The deck is stacked on or under the amplifier.	Separate the units.
Noise is recorded.	Recording was made near such equipment as a television set or a color monitor, and the interference has affected the recording on the tape and the Dolby NR system.	Move the unit away from television set or color monitor.